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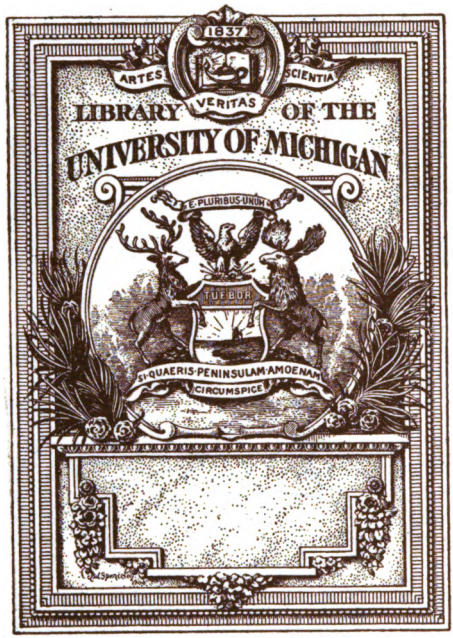

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CATALOGUE

OF

Brown University

ONE HUNDRED AND FORTY-FIRST YEAR

1904-1905

PROVIDENCE, R. I.
PUBLISHED BY THE UNIVERSITY
1904

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Correspondence

Correspondence addressed simply to BROWN UNIVERSITY, PROVIDENCE, RHODE ISLAND, may be expected to reach the proper department, but, in order to avoid delay, correspondents are requested to note the following directions:

Communications relating to matters directly in the charge of the Corporation, and all correspondence bearing upon the general interests of the University, should be addressed to the PRESIDENT. Requests for the Annual Catalogue and other publications, and inquiries relating to conditions of entrance, whether by examination or certificate, to undergraduate courses, and to expenses, should be addressed to the REGISTRAR. Inquiries concerning scholarships and matters pertaining to the students should be addressed to the DEAN OF THE UNIVERSITY. Inquiries in regard to graduate courses should be addressed to the DEAN OF THE GRADUATE DEPARTMENT. Inquiries relating to the Women's College should be addressed to the DEAN OF THE WOMEN'S COLLEGE. Inquiries or information concerning alumni should be sent to the KEEPER OF GRADUATE RECORDS.

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Calendar, 1904-1905

1904	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
July	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31	..	..	..	..	..	..
Aug.	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31	..	..	..
Sept.	..	..	..	..	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	..
Oct.	..	..	..	..	..	..	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31	..	..	..	..	..
Nov.	..	..	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	**24**	**25**	**26**
	27	28	29	30	..	..	..
Dec.	..	..	..	..	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	**24**
	25	**26**	**27**	**28**	**29**	**30**	**31**

1905	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Jan.	**1**	**2**	**3**	**4**	**5**	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31	..	..	..	..
Feb.	..	..	..	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	**22**	23	24	25
	26	27	28	..	..	..	..
Mar.	..	..	..	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	**18**
	19	**20**	**21**	**22**	**23**	**24**	**25**
	26	**27**	**28**	29	30	31	..
Apr.	..	..	..	..	..	..	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	..	..	..	..	..	..
May	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	**30**	31	..	..	..
June	..	..	..	..	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	..
	..	..	..	..	..	..	..

1905	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
July	..	..	..	..	..	..	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31	..	..	..	..	..
Aug.	..	..	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31	..	..
Sept.	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
Oct.	**1**	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31	..	..	..	..
Nov.	..	..	..	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	**30**	..	..
Dec.	..	..	..	..	..	**1**	**2**
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	**23**
	24	**25**	**26**	**27**	**28**	**29**	**30**
	31	..	..	..	..	..	..

Vacations and holidays occurring within the academic year are indicated by dark type.

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University Calendar, 1904-1905

1904.

September 7. *Wednesday.* Annual Meeting of the Corporation (first Wednesday in September).

September 15-19. *Thursday, Friday, Saturday, and Monday.* Examinations for admission to the Freshman Class.

September 19, 20. *Monday and Tuesday.* Examinations for admission to Advanced Standing.

September 20. *Tuesday.* Last day for registration of Undergraduate Students.

September 21. *Wednesday.* ACADEMIC YEAR BEGINS.

September 21. *Wednesday.* Last day for registration of Graduate Students.

October 1. *Saturday.* Examination in Greek for the President's Premiums.

October 5. *Wednesday.* Examinations in Latin for the President's Premiums.

October 8. *Saturday.* Examination in Mathematics for the Hartshorn Premiums.

October 12. *Wednesday.* Examination in French for the President's Premiums.

November 24-26. *Thursday, Friday, and Saturday.*

THANKSGIVING RECESS

December 17-23. *Saturday to Friday.* Term Examinations.

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December 24, 1904, *to January* 5, 1905. *Saturday to Thursday inclusive.*

CHRISTMAS RECESS

1905.

January 5. *Thursday.* Last day for registration of Undergraduate Students.

January 6. *Friday.* SECOND TERM BEGINS.

January 21. *Saturday.* Last day for receiving essays submitted in competition for the Gaston Prize Medal.

February 21. *Tuesday.* Gaston Prize Medal Competition.

February 22. *Wednesday.* Washington's Birthday. No University exercises.

March 11-17. *Saturday to Friday.* Term Examinations.

March 18-28. *Saturday to Tuesday inclusive.*

SPRING RECESS

March 28. *Tuesday.* Last day for registration of Undergraduate Students.

March 29. *Wednesday.* THIRD TERM BEGINS.

March 30. *Thursday.* Last day for receiving theses of candidates for the Doctor's degree.

May 9. *Tuesday.* Carpenter Prize Speaking Contest.

May 23. *Tuesday.* Hicks Prize Debate.

May 30. *Tuesday.* Memorial Day. No University exercises.

May 31. *Wednesday.* Last day for examinations for Advanced Degrees.

June 10-16. *Saturday to Friday.* Term Examinations.

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June 18. *Sunday.* Baccalaureate Sermon: First Baptist Meeting House, 4.30 P. M.

June 19. *Monday.* Class Day.

June 20. *Tuesday.* Annual Meeting of the Phi Beta Kappa Society: 5 University Hall, 9.30 A. M.

June 20. *Tuesday.* Ivy Day, Pembroke Hall.

June 20. *Tuesday.* Annual Meeting of the Alumni: Manning Hall, 2 P. M.

June 21. *Wednesday.* ONE HUNDRED AND THIRTY-SEVENTH ANNUAL COMMENCEMENT (third Wednesday in June): First Baptist Meeting House, 10.00 A. M.

June 22. *Thursday.* Meeting of the Corporation.

June 22-26. *Thursday, Friday, Saturday, and Monday.* Examinations for Admission to the Freshman Class and to Advanced Standing.

SUMMER VACATION

September 6. *Wednesday.* Annual Meeting of the Corporation (first Wednesday in September).

September 14-18. *Thursday, Friday, Saturday, and Monday.* Examinations for admission to the Freshman Class and to Advanced Standing.

September 19. *Tuesday.* Last day for registration of Undergraduate Students.

September 20. *Wednesday.* ACADEMIC YEAR BEGINS.

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† On leave of of absence during the academic year 1904-05.

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Demonstrator in Anatomy

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Assistant Registrar

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Assistant Registrar for the Women's College

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HENRY DEWEES CADY — Warren
Instructor in Shop Practice

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Superintendent of Grounds and Buildings

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Cataloguer

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Assistant in the Ladd Observatory

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Professors ALLINSON, POTTER, GREENE, CROSBY, and WILLIAMS.

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OFFICE HOURS

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7 Administration Building: 11.30 A. M. to 12.30 P. M. Tuesday, Wednesday, Thursday, Friday.

Dean of the University

ALEXANDER MEIKLEJOHN, PH. D.
5 Administration Building: 9.50 to 10.50 A. M.

Dean of the Graduate Department

CARL BARUS, PH. D.
5 Wilson Hall: 11.20 A. M. to 12.20 P. M., 3.20 to 4.20 P. M.

Dean of the Women's College

ANNIE CROSBY EMERY, PH. D.
Pembroke Hall, Meeting Street: 11.15 A. M. to 12.15 P. M.

Registrar, and Secretary of the Faculty

FREDERICK TAFT GUILD, A. M.
4 Administration Building: 8.30 A. M. to 1 P. M., 2.30 to 4 P. M.

Librarian

HARRY LYMAN KOOPMAN, A. M.
The Library: 9 to 10 A. M., 3 to 4 P. M.

Committee on Absences

HENRY THATCHER FOWLER, PH. D., Chairman
9 Administration Building: 3.30 to 4.30 P. M. Monday, 11.30 A. M. to 12 M. Friday.

Teachers' Bureau

WALTER BALLOU JACOBS, A. M., Secretary
10 Administration Building: 1.30 P. M. Monday, Wednesday, and Friday, 10 A. M. Saturday.

Superintendent of Grounds and Buildings

EDWIN AYLSWORTH BURLINGAME
1 University Hall: 8 to 9 A. M., 1.15 to 2.15 P. M.

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History of Brown University

The first suggestion of establishing a college in Rhode Island is connected with the residence of Dean (afterwards Bishop) Berkeley at Newport in 1729–31. But his cherished scheme of planting a Christian college in America failed to enlist royal favor, and the colony was compelled to wait a generation for the founding of an institution of higher learning within its borders. In 1762 the Philadelphia Baptist Association, in view of the disabilities attaching to Baptist students in most of the existing American colleges, welcomed a proposal offered by the Rev. Morgan Edwards, a clergyman of Welsh birth, at that time pastor of the First Baptist Church in Philadelphia, to found a college in Rhode Island that should be under the control of their own denomination. James Manning, a graduate of Princeton in the same year, was appointed by the Association as its agent to establish "a seminary of polite literature subject to the government of the Baptists."

In deciding upon the location of the new college, a canvass of the colonies had shown the advantages to be clearly on the side of Rhode Island, which recognized absolute religious liberty, and was, moreover, a Baptist colony in origin and popular attachment. There was no rival institution in the field; and the important cities of Newport and Providence, the former being the second city in New England, furnished an encouraging prospect of future support. Accordingly, in 1764, the friends of the movement obtained from the General Assembly the charter which still remains in force. Although, under the rules of the charter, a majority of both the Fellows and the Trustees must be Baptists, yet the three important positions of Chancellor, Secretary, and Treasurer are without denominational restriction, and all religious tests and sectarian instruction are strictly prohibited.

As the college was at the beginning without funds, and only a scanty return could be expected from students' fees, it was necessary that the president should support himself and his family by some other means. The founding of a Baptist church in Warren, and the call of Mr. Manning to its pastorate, offered a solution of the difficulty; and hither Mr. Manning brought his family in the spring of 1764. His first act towards the establishment of a college was the opening of a Latin school. This preparatory school was removed with the college to Providence, where it flourished for a hundred and forty years under the name of the University Grammar School. At the second meeting of the corporation, September 4,

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1765, Mr. Manning was formally appointed "president of the college, professor of languages and other branches of learning;" the first student had been matriculated the day before. In the following year David Howell was appointed tutor, but no other addition was made to the faculty until 1774. In 1769 the first class of seven members was graduated at Warren. This town had not generally been regarded as the permanent seat of the college, and the necessity which now arose of erecting a college building compelled a final choice of location. After a spirited contest for the honor among the leading towns of the colony, the choice fell upon Providence. Here in 1770 the first college building, the present University Hall, modeled after Nassau Hall at Princeton, and a house for the president were both built on the college grounds.

In 1771 President Manning was called to the pastorate of the First Baptist Church in Providence; and he served the church in this capacity, in addition to his college duties, from that date until the close of his life. In December, 1776, the work of the college was interrupted by the Revolutionary war, and it was not resumed until the fall of 1782, University Hall meanwhile being used as a barrack and hospital for the combined American and French troops. Upon the reorganization of the college important additions were made to the library and the philosophical apparatus. In 1791, after twenty-nine years of service as founder and director of Rhode Island College, President Manning died. He had seen the college become firmly established, with a graduate roll of 149; the last graduating class, that of 1790, having numbered 22. At the time of his death the faculty consisted of the president, four professors, and two, tutors. The discipline during this period had been strict and paternal, the officers of instruction living under the same roof with the students and making frequent visits of inspection to their rooms. President Manning at first taught all the branches studied, but was designated professor of languages, afterwards of moral philosophy. David Howell, his assistant, taught mathematics and natural philosophy, and is said to have taught also French, German, and Hebrew. He was appointed professor of natural philosophy in 1769, and of law in 1790, but never taught the latter subject. A professor of natural history was appointed in 1784; and a professor of mathematics and astronomy in 1786.

The first college funds, amounting to $4500, were collected in England and Ireland by the Rev. Morgan Edwards in 1767–68. In the next two years the Rev. Hezekiah Smith obtained subscriptions amounting to $2500 in South Carolina and Georgia. The former contribution was made a permanent fund; the latter was expended in the construction of the college buildings. Further gifts were received for a time from the Philadelphia, Charleston, and Warren Baptist Associations, but they appear to have ceased with the outbreak of the Revolutionary war.

The successor of President Manning was the Rev. Jonathan Maxcy, a graduate in the class of 1787, who had been professor of divinity 1791–92.

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He served from 1792 until 1802, when he resigned his office to accept the presidency of Union College. During the last year of his administration at Rhode Island College a class numbering 28 was graduated.

The third president of the college, the Rev. Asa Messer, a graduate in the class of 1790, who had served as professor of learned languages 1796–99, and of mathematics and natural philosophy 1799–1802, directed the affairs of the institution from 1802 until his resignation in 1826. During his presidency of twenty-four years the college was expanded in every direction. A class numbering 48 was graduated in 1825, the faculty in that year consisting of the president, nine professors, and two tutors. A medical school was established, which existed from 1811 until 1828, and sent out 87 graduates. The special professorships created for the medical school were materia medica and botany, 1811; anatomy and surgery, 1811; chemistry, 1811; theory and practice of medicine, 1815. A professor of moral philosophy and metaphysics was appointed in 1811; one of oratory and belles-lettres in 1815, and one of the Latin and Greek languages and literature in 1825.

In 1792 Nicholas Brown, a graduate in the class of 1786, gave $500 with which to purchase law books for the Library. In 1804 he endowed a professorship of oratory and belles-lettres. In the same year the name of the institution was changed in his honor to Brown University. In 1810 the University Grammar School building, recently known as Lyon Hall, was erected, and in 1822 Mr. Brown built Hope College at his own expense. In 1826 the permanent funds of the University amounted to $31,300.

The fourth president, the Rev. Francis Wayland, entered upon his official duties in 1827. He at once raised the standard of scholarship, and gradually increased the scope of the instruction. He finally accomplished an entire reorganization of the University on the basis of the elective principle. In accordance with this "New System" the bachelor's degree was given for a three year's course, and the master's degree for a course of four years. Graduate study and special study were both encouraged; and the sciences, in accordance with the spirit of the charter, were made prominent in the curriculum. This system was not put into operation until 1850, and was fully in force only until his retirement five years later. The increase in the scope of the curriculum during President Wayland's administration is clearly shown in the following list of subjects to which professors or instructors were assigned at the dates annexed: chemistry, physiology, and geology, 1834; moral and intellectual philosophy, 1834; belles lettres, 1835; rhetoric, 1837; Hebrew literature, 1838; modern languages and literature, 1843; Greek, 1843; Latin, 1844; French, 1844; history and political economy, 1850; natural philosophy and civil engineering, 1850; chemistry applied to the arts, 1850; rhetoric and English literature, 1851; didactics (i. e., pedagogy), 1851; analytical chemistry, 1854.

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The influence of President Wayland was felt not so much in the increase of the number of students as in the higher intellectual and moral tone of the institution. Discipline, which had grown lax, was strictly enforced. During his administration the college grounds were laid out, and the library was placed on a sound financial basis. The permanent funds were increased to $200,000, and three important buildings were erected: Manning Hall, given by Nicholas Brown in 1834; Rhode Island Hall, erected in 1840, from subscriptions by Rhode Island men and women; and the second President's House, the gift of Nicholas Brown, built in 1840. The last named building has been used since 1899 as a refectory. The total value of Mr. Brown's various gifts to the University was not less than $160,000. Mr. Brown also served the University in a most efficient way as treasurer 1796–1825. He was trustee 1791–1825, and fellow from 1825 until his death in 1841. Dr. Wayland resigned the presidency in 1855, having won for the University, by his fame as a writer, thinker, and educational reformer, an enviable distinction both at home and abroad.

The fifth president of the University, the Rev. Barnas Sears, a graduate in the class of 1825, held office from 1855 until 1867, when he resigned the presidency to become general agent of the Peabody Education Fund. During his incumbency no new subject was added to the curriculum, except physical geography, in 1864. Although the term of President Sears covered the financial crisis of 1857 and the Civil War, a notable increase was made both in the funds and in the number of students. A system of scholarships was established, and over $220,000 was collected in subscriptions. The Chemical Laboratory was built in 1862. In the last class that entered under President Sears seventy-three students were enrolled. Three hundred graduates and students of Brown entered the Union service, 1861–65. Of these twenty-one laid down their lives.

The Rev. Alexis Caswell, a graduate in the class of 1822, was the sixth president of the University, his term covering the years 1868–72. Under his administration the department of physics was organized, and the endowment was increased from $365,000 to a sum exceeding $550,000. The Jenks museum of zoölogy was founded in 1871. Upon the resignation of Dr. Caswell, the Rev. Ezekiel Gilman Robinson, a graduate in the class of 1838, was chosen his successor. His presidency extended over the seventeen years from 1872 to 1889. This period was marked not only by an increase in the attendance, the class of 1889 being graduated with a membership of fifty-six, but also by a high degree of intellectual and moral enthusiasm. The following subjects were added to the curriculum or were emphasized by the appointment of separate instructors: special branches of agriculture, 1872; zoölogy and agriculture, 1874; physiology, 1874; botany, 1877; zoölogy and geology, 1878; elocution, 1880; astronomy, 1884; logic, 1886; history, 1888; political economy, 1888. The funds were increased to $980,000, and important additions were

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made to the buildings. Rhode Island Hall was enlarged in 1875. The Library, the gift of John Carter Brown, of the class of 1816, was built in 1878. Slater Hall was given to the University by Horatio Nelson Slater in 1879. Sayles Hall, the gift of William Francis Sayles, a memorial to his son, William Clark Sayles, a member of the class of 1878, was built in 1881. University Hall, which had been renovated in 1850, was again renovated in 1883. Dr. Robinson recognized the fact that a great opportunity for a university existed at Brown, and continually strove to enlarge the scope of the institution. New courses were created, and a beginning was made in systematic graduate study. Dr. Robinson resigned the presidency in 1889.

The eighth president of the University was the Rev. Elisha Benjamin Andrews, a graduate in the class of 1870. With his accession in 1889 the modern life of the University properly begins. In the year preceding his presidency three graduate students were enrolled; in the last year of his term of service the graduate students numbered 101, the total number of students for the same years being, respectively, 268 and 860. The officers of instruction for the corresponding years increased in number from 22 to 73. All the old departments were expanded, and the number of departments was increased from 16 in 1889–90 to 25 in 1897–98. The department of philosophy was enlarged by the addition of psychology and pedagogy. American and European history were assigned to separate professors, political economy was made a department, and the department of social and political science and law was added. The department of fine arts was created, including the history of art, and music. The new department of Indo-European philology was introduced. The departments of Greek and Roman literature and history, English literature and language, and Germanic and Romance languages and literatures, were reorganized and extended. Rhetoric and oratory were made an independent department. The new department of Biblical literature and history, including the Semitic languages and New Testament Greek, was formed, and a course in the philosophy of religion was offered. The departments of mathematics, mechanical engineering, astronomy, physics (including electrical engineering), chemistry, zoölogy, geology and anthropology, and botany were extended in scope and thoroughness. New departments were formed for the subjects of mechanical drawing, civil engineering, comparative anatomy, military science and tactics, and bibliography. The museum of fine arts was founded in 1889, and that of anthropology in 1891.

The funds were increased to $1,125,685, and important additions were made to the buildings and grounds. In 1891 Hope College was renovated, Wilson Hall, the bequest of George Francis Wilson, was built, the Ladd Observatory was presented to the University by the Hon. Herbert W. Ladd, and the Lyman gymnasium, named in honor of its principal donor, was erected. Maxcy Hall was built in 1895, and Pembroke Hall, the recitation building of the Women's College, in 1897. Three buildings,

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known as the Howell, Messer, and Brown Street Houses, were also secured for dormitory purposes. The old playground of the University, now known as Lincoln Field, was graded and fitted up for ball games and other athletic purposes in 1889. In 1898 a new athletic field was laid out on Camp Street, a mile and a half from the University.

In 1891 the Grand Army of the Republic Fellowship Fund of $10,000 was given to the University by the Rhode Island Department of that organization. In 1894 the University returned to the State of Rhode Island the scholarship fund of $50,000 obtained from land-scrip received in 1863, due under act of Congress of July 2, 1862. At the same time the State paid the University $40,000 in requital of its claim upon the Morrill fund, due to the State under act of Congress of August 30, 1890.

The Women's College was founded in October, 1891. At first only the privileges of University examinations and certificates of proficiency were granted. In June, 1892, all the College and University degrees and the graduate courses were opened to women. In November, 1897, the institution was accepted by the Corporation, and officially designated the Women's College in Brown University. The immediate charge of this department, subject to the direction of the president, was placed in the hands of the dean of the Women's College. It was required that all instruction be given by members of the University faculty. Pembroke Hall, which was built by the Rhode Island Society for the Collegiate Education of Women, was formally transferred to the University in October, 1897, and was accepted as the recitation hall of the Women's College.

Accompanying the material progress that marked the administration of President Andrews there was a steady and gratifying advance in moral and intellectual earnestness. In 1898 Dr. Andrews resigned the presidency to become Superintendent of Schools of Chicago. Dr. Benjamin Franklin Clarke, the senior member of the faculty, who had served as president *pro tempore* during the absence of Dr. Andrews in Europe in 1896–97, was appointed president *ad interim*, and served during the academic year 1898–99.

The ninth president of the University is the Rev. William Herbert Perry Faunce, a graduate in the class of 1880, who entered upon his official duties on Commencement Day, 1899. At Commencement, 1900, announcement was made of an addition of over a million dollars to the endowment of the University. To this was added a year later a second million, including the endowment of the John Carter Brown Library. In 1900 the Slater Memorial Homestead was presented by Mrs. Horatio N. Slater as a home for the students of the Women's College. In 1901 the Van Wickle gates were formally opened, and in the same year the President's House was erected at the corner of Hope and Manning streets. In 1902 the Van Wickle Administration Building was completed, this structure as well as the gates being the bequest of Augustus Stout Van

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Wickle, of the class of 1876. In 1903 Rockefeller Hall, the gift of John D. Rockefeller, was opened for the use of the Brown Union, a social organization of students and alumni which was formed in that year. The building is provided with a maintenance fund raised by subscription. In the same year the Engineering Building on Lincoln Field, Caswell Hall, a dormitory fronting on Thayer street, and the Colgate Hoyt Swimming Pool, connected with the Gymnasium, the gift of Colgate Hoyt, were erected, and a magnificent organ, the gift of Lucian Sharpe, of the class of 1893, was placed in Sayles Hall. In 1904 the John Nicholas Brown gate was built as a memorial to the late John Nicholas Brown by his widow. In the same year the Carrie Tower, a clock tower, erected by Paul Bajnotti, of Turin, to the memory of his wife, Carrie Mathilde Brown, was presented to the University. Since 1901 an iron fence with brick and stone posts has been built in place of the old wooden fence around the front and the middle campus. Each section has been contributed by or in memory of some class. The classes of 1872, 1884, and 1887 have contributed gates, that given by the class of 1884 being in memory of President Robinson. In April, 1904, the funds of the University, exclusive of those pertaining to the John Carter Brown Library, amounted to $2,492,198.

The Library of the University dates from 1767, when the Rev. Morgan Edwards collected books for it in England. The collection was at first kept in University Hall. It was removed to Manning Hall upon the completion of that building in 1835. In 1842 it contained ten thousand volumes, and in 1878, the date of its transference to the present building, its volumes numbered forty-eight thousand. The present number, including the books in the twelve department libraries, but not including the John Carter Brown Library, is about one hundred and thirty thousand volumes. Upon the removal of the College to Providence in 1770 the professors and students enjoyed the hospitality of the Providence Library Company, now the Athenæum, in extension of the scanty resources of the College Library. The Library of the Rhode Island Historical Society and the State Law Library have in later years been most valuable adjuncts to the University Library, and, since the opening of the Providence Public Library in 1878, members of the University have made constant use of its choice and readily available resources. The Library Fund, established under President Wayland, has been supplemented by ten special funds, devoted to the departments of European History, United States History, Mediæval and Church History, Botany, the Arts of Design, Biology, the Classical Languages and Literatures, English Literature, and American Poetry. Gifts of one thousand dollars each were made to the Library in recent years by the classes of 1872, 1884, 1885, 1886, 1887, and 1888, and were of material assistance towards enabling the Library to meet the ever-growing demands made upon it by the work of the University. In 1884, by the will of the Hon. Henry B. Anthony,

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the Library came into possession of the Harris Collection of American Poetry, numbering 5000 volumes. In 1901 there was presented to the University the John Carter Brown Library, unquestionably the most complete collection in the world on the history of the two Americas down to the end of the eighteenth century. The books were accompanied by a gift of $500,000 as an endowment, and $150,000 for the erection of a building for their accommodation. The building was dedicated in May, 1904.

In October, 1903, the University received by the gift of Marsden J. Perry, of Providence, the Sidney S. Rider Collection of manuscripts, books, and other material, forming the most important existing library on the History of Rhode Island.

At the close of the 136th Commencement of the University in 1904, there were enrolled the names of 5896 graduates—5599 men and 297 women. Of this number 5151 had received the College or University first degree; 77, exclusive of the foregoing, had received advanced degrees; 69, not previously reckoned, had received the degree of Doctor of Medicine; while 599 others had received honorary degrees. Of the entire number, 3128, or 53 per cent., were living.

THE CHARTER

At the General Aſsembly of the Governor and Company of the English Colony of Rhode Island and Providence-Plantations in New England in America, begun and held at East Greenwich within & for said Colony by adjournment upon the last Monday of Febr one Thousand Seven Hundred and Sixty-four, and in the fourth Year of the Reign of His Most Sacred Majesty George the Third, by the Grace of God, King of Great Britain, and so forth

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WHEREAS Inſtitutions for liberal Education are highly beneficia to Society, by forming the rising Generation to Virtue Knowledge & uſeful Literature & thus preſerving in the Community a Succeſsion of Men duly qualify'd for discharging the Offices of Life with uſefulneſs & reputation they have therefore juſtly merited & received the attention & Encouragement of every wiſe and well regulated State, and whereas a Public School or Seminary erected for that purpoſe within this Colony, to which the Youth may freely reſort for Education in the Vernacular & Learned Languages & in the liberal Arts & Sciences, would be for the general Advantage & Honor of the Government, and whereas

M^r Gideon Hoxsey	M^r Ezekiel Gardner	Daniel Jenckes Esq^r
		Nicholas Tillinghast Esq^r
M^r Thomas Eyres	M^r John Waterman	
		Nicholas Gardiner Esq^r
M^r Thomas Potter Jun^r	M^r James Barker Jun^r	Cole. Joſias Lyndon
M^r Peleg Barker	M^r John Holmes	Cole Eliſha Reynolds
M^r Edw^d Thurston	Solomon Drown Esq^r	
M^r W^m Redwood	M^r Saml Windſor	Peleg Thurston Esq^re
		Simon Peaſe Esq^re
Joſeph Clarke Esq^r	M^r Joſeph Sheldon	
M^r John G. Wanton	Charles Rhodes Esq^re	John Tillinghast Esq^re
		George Haszard Esq^re
M^r Tho^s Robinſon	M^r Nicholas Brown	Cole Job Bennet
	Cole M^r Barzilla Richmond	Nicholas Easton Esq^re
	M^r John Brown	Arthur Fenner Esq^re

with many other Perſons appear as undertakers in the valuable design, & thereupon a Petition has been preſer'd to this Aſsembly praying that full Liberty and Power may be granted unto ſuch of them with others as are hereafter mentioned to found endow, order & govern a College or University within this Colony & that for the more effectual execution of this design they may be incorporated into one Body Politic to be known in the Law with the powers priviledges & franchiſes neceſsary for the purpoſe aforeſaid—

Now, therefore know ye that being willing to encourage and patronise ſuch an honorable and uſeful Inſtitution, we the ſaid Governor & Company in General Aſsembly convened do for ourſelves and our

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Succeſsors in and by virtue of the Power and Authority within the Jurisdiction of this Colony to us by the Royal Charter granted & committed enact grant conſtitute ordain & declare & it is hereby enacted granted conſtituted ordained and declared that the

Rev.d James Manning	Joshua Babcock Esq.r	Hon'ble Stephen Hopkins Esq.r	
Rev.d Ruſsel Mason	M.r John G. Wanton	Hon'ble Joseph Wanton Jun.r Esq.r	
Col.o Elisha Reynolds	Rev.d Edward Upham	~~Honble John Gardner~~	
Col.o Josias Lyndon	Rev.d Jeremiah Condy	Hon'ble Samuel Ward Esq.r	
Col.o Job Bennet	Rev.d Marmaduke Brown	Hon'ble William Ellery Esq.r	
M.r Ephraim Bowen	Rev.d Gardner Thurston	" John Tillinghast Esq.r	
Joshua Clarke Esq.r	Rev.d Ezra Stiles	" Simon Pease Esq.r	
Cap.t Jon.a Slade	Rev.d John Greaves	" James Honyman Esq.r	
John Taylor Esq.r	Rev.d John Maxson	" Nicholas Easton Esq.r	
M.r Robert Strettell Jones	Rev.d Sam.l Winſor	" Nicholas Tillinghast Esq.r	
Azariah Dunham Esq.r	Rev.d John Gano	" Darius Seſsions Esq.r	
M.r Edward Thurston J.r	Rev.d Morgan Edwards	" Joseph Harris Esq.r	
M.r Thomas Eyres	Rev.d Isaac Eaton	" Francis Willet Esq.r	
M.r Thomas Haszard	Rev.d Sam.l Stillman	William Logan Esq.r	
M.r Peleg Barker	Rev.d Sam.l Jones	" Daniel Jencks Esq.r	
		George Hazard Esq.r	
		~~M.r~~ Nicholas Brown Esq.r	
		" Jeremiah Niles Esq.r	

or ſuch or so many of them as ſhall within twelve Months from the date hereof, accept of this trust and qualify themſelves as herein after directed, and their Succeſsors ſhall be for ever hereafter one Body Corporate & Politic in Fact and Name to be known in Law by the Name of Truſtees, and Fellows of the College or University in the English Colony of Rhode Island and Providence Plantations in New England in America the Truſtees and Fellows at any Time hereafter giving such more particular Name to the College in Honor of the greatest & most distinguished Benefactor or otherwise as they shall think proper which Name so given shall in all Acts, Inſtruments and Doings of said Body Politic be superadded to their corporate Name aforesaid, and become a part of their legal Appellation, by which it ſhall be for ever known and distinguished, and that by the ſame Name, they and their Succeſsors chosen by themselves as hereafter preſcribed ſhall and may have perpetual Succeſsion, and ſhall & may be Perſons able and capable in the Law to Sue, & to be Sued to Plead and

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to be impleaded to Anſwer, and to be Answered unto, to defend and to be defended in all and singular Suits Cauſes Matters Actions and Doings of what kind soever & also to have take poſſeſs purchase acquire or otherwise receive & hold Lands Tenements Hereditaments, Goods Chattles or other Estates of all which they may and ſhall stand and be seized notwithstanding any Miſnomer of the College or the Corporation hereof and by what ever Name or however imperfectly the ſame ſhall be described in Giſt, Bequests and Aſsignments provided the true intent of the Aſsigner or Benefactor be evident. Also the ſame to grant demiſe alien lease use manage and improve according to the Tenor of the Donations, and to the Purposes Trusts & Uſes to which they ſhall be ſeized there of and full Liberty Power & Authority is hereby granted unto the said Truſtees & Fellows and their Succeſsors to found a College or Univerſity within this Colony for promoting the Liberal Arts and Universal Literature, and with the Monies Estates & Revenues of which they ſhall from time to time become legally Seized as aforesaid to Endow the ſame and erect the neceſsary Buildings & Edefices thereof on such Place within this Colony as they ſhall think Convenient: And Generally to regulate Order & Govern the ſame Appoint Officers & make Laws as herein after prescribed & hold use & enjoy all the Liberties Priviliges exemptions, Dignities & Immunities enjoy'd by any College or University whatever, And furthermore that the s^{d}, Trustees & fellows & their Succeſsors ſhall & may forever hereafter have a public Seal to use for all Causes matters & affairs whatever of them and their Succeſsors and the ſame Seal to alter Break & make anew from time to time at their Will and Pleasure which Seal ſhall always be deposited with the President or Senior fellow and furthermore by the Authority aforesaid it is hereby enacted Ordained & declared that it is now and at all Times hereafter ſhall continue to be the unalterable Conſtitution of this College or University that the Corporation thereof shall consist of two Branches Viz: that of the Trustees & that of the fellowſhip with distinct ſeperate & respective powers, and that the Number of the Trustees ſhall and may be thirty ~~five~~ six of which twenty two ſhall forever be Elected of the Denomination called Baptists or Antipedobaptis Five ſhall for ever be elected of the Denomination called Friends or Quakers, four ſhall for ever be elected of the Denomination called Congregationalists, & ~~four~~ Five ſhall

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for ever be elected of the Denomination called Episcopalians & that the Succeſsion in this Branch ſhall be for ever chosen & filled up from the respective Denominations in this proportion and according to these Numbers which are hereby fixt & ſhall remain to perpetuity imutably the ſame and that the said

Revd Iſaac Eaton	" Francis Willet Esqr	Hon'ble Stephen Hopkins Esqr
Revd Sam Stillman	" Daniel Jencks Esqr	Hon'ble Joseph Wanton Jun Esqr
Revd Ruſsel Maſon	George Haszard Esqr	~~Hon'ble John Gardner Esqr~~
Colo Elisha Reynolds	Nicholas Brown Esqr	Hon'ble Samuel Ward Esqr
Colo Josias Lyndon	" Jeremiah Niles Esqr	Hon'ble William Ellery Esqr
Colo Job Bennet	" ~~Mr~~ John G Wanton Esqr	" John Tillinghast Esqr
Mr Ephraim Bowen	" ~~Mr~~ Joshua Clark Esqr	" Simon Pease Esqr
John Taylor Esqr	" Revd Gardner Thurston	" James Honyman Esqr
Capt Jona Slade	" Revd John Greaves	" Nicholas Easton Esqr
Mr Robert Strettell Jones	" Revd John Maxſon	" Nicholas Tillinghast Esqr
Azariah Dunham Esqr	" Revd John Gano	" Darius Sefsions Esqr
Mr Edward Thurston Junr	" Revd Saml Winſor	" Joseph Harris Esqr
Mr Peleg Barker		

or ſuch or so many of them as ſhall qualify themselves as aforesaid shall be and they are hereby declared and established the first and present Truſtees.— And that the Number of the Fellows inclusive of the President who ſhall always be a Fellow, ſhall and may be Twelve of which eight ſhall be for ever elected of the Denomination called Baptists or Antipadobaptists, and the rest indifferently of any or all Denominations and that the

Joshua Babcock Esq.	Revd Ezra Stiles	Rev. Edward Upham
Mr Thomas Eyres	Revd Saml Jones	Rev. Jeremiah Condy
Mr Thomas Haſzard	Revd James Manning	Rev. Marmaduke Brown
~~Honble~~	Wm Logan Esqr	Rev. Morgan Edwards

or ſuch or so many of them as ſhall qualify themselves as aforesaid. ſhall be, and they are hereby declared the first and present Fellows and Fellowship to whom the President when hereafter elected who shall forever be of the Denomination called Baptist or Antepedo Baptist ſhall be Joined to compleat the Number. And furthermore it is declared and ordained that the Succeſsion in both Branches ſhall at all times hereafter be filled up and ſupplied according to these Numbers and this established and invariable Proportion from the respective Denominations by the ſeperate Election of both Branches

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of this Corporation which ſhall at all Times ſitt and Act by seperate and distinct Powers, and in general in order to the validity and conſummation of all Acts there ſhall be in the Exerciſe of their respective ſeperate and distinct Powers, the Joint concurrence of the Truſtees and the Fellows by their respective Majorities except in adjudging and conferring the Academical Degrees which ſhall for ever belong exclusively to the Fellowship as a Learned Faculty And further it is conſtituted that the Inſtruction and immediate Government of the College ſhall for ever be and Rest in the President and Fellows or Fellowship—And furthermore it is ordained that there ſhall be a General Meeting of the Corporation on the first Wednesday of September Annually within the College Edifice, and untill the ſame be Built at ſuch Place as they ſhall appoint to conſult Advise and transact the Affairs of the College or University at which or at any other time the Public Commencement may be held and Celebrated and that on any special Emergencies the President with any two of the Fellows or any Three of the Fellows exclusive of the Preſident may convoke and they are hereby empowered to convoke an Aſsembly of the Corporation on twenty Days Notice and that in all Meetings the Major Vote of those Present of the two Branches respectively ſhall be deemed their respective Majorities aforesaid, provided that not leſs than twelve of the Trustees & five of the Fellows be a Quorum of their Respective Branches—That the President or in his Absence the Senior Fellow present ſhall always be Moderator of the Fellows, that the Corporation at their Annual Meetings once in three Years or oftner in Case of Death or Removal ſhall and may chose a Chancellor of the Univerſity and Treaſurer from among the Truſtees, and a Secretary from among the Fellows, that the Nomination of the Chancellor ſhall be in the Trustees whose Office ſhall be only to Preside as a Moderator of the Truſtees and that in his Abſence the Truſtees ſhall choose a Moderator for the time being by the Name of Vice Chancellor and at any of their Meetings duly formed as aforesaid ſhall and may be elected a Truſtee or Fellow, or Truſtees or Fellows in the Room of those Nominated in this Charter who may refuse to accept or in the Room of those who may Die, Resign or be Removed— And furthermore it is enacted ordained and declared that this Corporation at any of their Meetings regularly convened as aforesaid ſhall and may Elect and appoint the President and Profeſsors of Languages and the

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ſeveral Parts of Literature, and upon the demiſe of him or them or either of them their Resignation or Removal from his or their Office for Misdemeanor Incapacity or Unfaithfulneſs, for which he or they are hereby declared removeable by this Corporation others to Elect and Appoint in their Room and Stead, & at ſuch meeting upon the Nomination of the Fellows to Elect and Appoint Tutors Stewards Butlers and all ſuch other Officers usually appointed in Colleges or Univerſities as they ſhall find neceſsary and think fitt to appoint for the promoting Liberal Education and the well ordering the Affairs of this College and them or any of them at their diſcretion to remove and ſubſtitute others in their Places, and in case any President Trustee or Fellow ſhall ſee Cause to change his Religious Denomination the Corporation is hereby empowered to declare his or their Place or Places Vacant, and may proceed to fill up it or them accordingly as before directed otherwise each Truſtee and Fellow not an officer of Inſtruction ſhall continue in his Office, during Life or untill Resignation and further in Case either of the Religious denominations ſhou'd decline taking a Part in this Catholic Comprehenſive and liberal Inſtitution the Truſtees and Fellows ſhall and may compleat their Number by electing from their Respective Denominations always preſerving their Reſpective Proportions, herein before prescribed and determined, and all Elections ſhall be by Ballot, or written Suffrage, and that a Quorum of four Trustees & three Fellows may transact any Buſineſs excepting placing the College Edifice, Election of Truſtees, President, Fellows and Profeſsors that is to ſay so that their Acts ſhall be of Force and Validity untill the next Annual Meeting and no longer———

And it is further Enacted and Ordained by the Authority aforeſaid that each Truſtee and Fellow as well those Nominated in this Charter or all that ſhall hereafter be duly Elected ſhall previous to their acting in a corporate Capacity take the Engagement of Allegiance prescribed by the Law of this Colony to His Majesty King George the third, His Heirs and Rightful Succeſsors to the Crown of Great Britain which Engagement ſhall be Administered to the present Trustees and Fellows by the Governor or Deputy Governor of this Colony and to them from time to time hereafter Elected by their Respective Moderators who are hereby empowered to Administer the ſame———

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And ſtill the more clearly to define and Aſcertain the Respective Powers of the two Branches on making and enacting Laws, it is further Ordained and Declared that the Fellowſhip ſhall have Power and are hereby impowered from time to time and all times hereafter to make Enact and Publiſh all ſuch Laws Statutes Regulations and Ordinances with Penalties as to them ſhall ſeem meet for the ſucceſſful Instruction and Government of said College or University not contrary to the Spirit Extent, true Meaning and Intention of the Acts of the British Parliament or the Laws of this Colony, and the ſame Laws, Statutes and Ordinances to Repeal, which Laws and the Repeals thereof, ſhall be laid before the Truſtees, and with their Approbation ſhall be of Force and Validity but not otherwise, and further the Truſtees and Fellows at their Meetings aforesaid ſhall aſcertain the Salaries of the Respective Officers and Order the Monies aſſeſsed on the Students, for Tuition Fines and Incidental Expences to be Collected by the Steward or ſuch other Officer as they ſhall appoint to Collect the ſame, and the ſame with their Revenues and other College Estates in the Hands of the Treaſurer to appropriate, in discharging Salaries and other College Debts and the College Accounts shall be Annually Audited and Adjusted in the Meeting of the Corporation and furthermore it is hereby enacted and declared that into this Liberal & Catholic Inſtitution ſhall never be admitted any Religious Tests but on the Contrary all the Members hereof ſhall for ever enjoy full free Absolute and uninterrupted Liberty of Conscience and that the Places of Profeſsors, Tutors and all other Officers the Preſident alone excepted ſhall be free and open for all Denominations of Protestants and that Youths of all Religious Denominations ſhall and may be freely admitted to the Equal Advantages Emoluments & Honors of the College or Univerſity and ſhall receive a like fair generous & equal Treatment, during their Residence therein, they conducting themſelves peaceably and conforming to the Laws and Statutes thereof: And that the Public teaching ſhall in general Respect the Sciences and that the Sectarian differences of opinions, ſhall not make any Part of the Public and Classical Inſtruction, altho' all Religious Controversies may be ſtudied freely examined and explained by the President Profeſsors and Tutors in a personal ſeperate and distinct manner, to the Youth of any or each Denomination and above all a constant Regard be paid to and effectual Care taken of the Morals

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of the College and furthermore for the honour & encouragement of Literature we conſtitute and declare the Fellowship aforesaid a learned faculty and do hereby give grant unto and invest them & their Succeſsors with full Power & Authority, and they are hereby Author-iz'd & impowered by their President & in his Abſence by the Senior Fellow or one of the Fellows appointed by themſelves at the Anniversary Commencements or at any other times and at all Times hereafter to Admit to & Conferr any & all the Learned Degrees which can or ought to be given and conferred in any of the Colleges & Univerſities in America ~~Europe & particularly in the University in Cambridge & Edinbourgh in Great Britain)~~ or any ſuch other Degrees of Literary Honor as they ſhall devise upon any and all ſuch Candidates and Perſons as the President and Fellows or Fellowſhip ſhall Judge worthy of the Academical Honors, which Power of conferring Degrees is hereby restricted to the Learned Faculty, who ſhall or may Iſsue Diplomas or Certificates of ſuch Degrees or conferr Degrees by Diplomas and Authenticate them with the Public Seal of the Corporation, and the Hands of the President and Secretary, and of all the Profeſsors as Witneſses and deliver them to the Graduates as Honorable and Perpetual Testimonies, and furthermore for the greater Encouragement of this Seminary of Learning and that the ſame may be amply endow'd and enfranchised with the ſame priviledges Dignities and Immunities, enjoy'd by the American Colleges and European Univerſities, we do grant enact Ordain and Declare and it is hereby granted Enacted Ordained and Declared that the College Estate, the Estates Perſons and Families of the President and Profeſsors for the Time being lying and being within the Colony with the Perſons of the Tutors ~~Graduates~~ and Students during their Residence at the College ſhall be freed and exempted from all Taxes, ſerving on Juries and Menial Services, and that the Persons aforesaid ſhall be exempted from bearing Arms Impreſses and Military Services except in Case of an Invaſion And furthermore for eſtabliſhing the perpetuity of this Corporation and in caſe that at any time hereafter through oversight or otherwiſe through misapprehensions and mistaken Constructions of the Powers Liberties and Franchises herein contained any Laws should be enacted or any matters done and transacted by this Corporation contrary to the tenor of this Charter it is hereby enacted ordained and declared that all such Laws Acts and Doings shall be in themselves null and

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void: yet nevertheleſs the same shall not in any Courts of Law or by the Gen^rl^ Aſsembly be deemed taken interpreted or adjudged into an avoidance, defeazance or forfeiture of this Charter but that the same shall be and remain unhurt inviolate and entire unto the said Corporation in perpetual Succeſsion, which Corporation may at all times and forever hereafter proceed & continue to Act; and all their Acts conformable to the Powers, tenor, true intent and Meaning of the Charter shall be and remain in full force and validity, the nullity and avoidance of any such illegal Acts to the Contrary in any wiſe notwithstanding— and laſtly, We the Governor and Company aforesaid do for ourselves and our Succeſsors, forever hereby enact, Grant & confirm unto the said Truſtees and Fellows and to their Succeſsors that this Charter of Incorporation and every part thereof shall be good and available in all things in the Law according to our true Intent and meaning, and shall be construed, reputed & adjudged in all caſes moſt favorably on the behalf and for the beſt benefit and behoof of the said Truſtees and Fellows and their Succeſsors so as most effectually to answer the valuable Ends of this uſefull Inſtitution——

In full Teſtimony of which Grant and of all the Articles and matters therein contained, the said Governor & Company do hereby order that this Act shall be Signed by the Governor and Secretary and Sealed with the publick Seal of this Colony and Registerd in the Colonys Records and that the Same or an exemplification thereof shall be a sufficient Warrant to the said Corporation to hold, uſe and exerciſe all the Powers, Franchiſes and Immunities herein contained—

March 2^d^ 1764

To the Houſe of Mag^tes^

Gen^l^ Resolvd that the aforewritten Paſs as an Act of this Aſsembly

Noted & paſsd Nemine Contradicente

& ord^rd^ Josias Lyndon Clerk

In the Upper House

Read on the Third and concurred Nemine Contradicente

By Ord. Henry Ward Secr'y

Note.—The foregoing is in all respects an exact reproduction of the original copy of the Charter in the office of the Secretary of the State of Rhode Island, in Providence.

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Admission to the University

METHODS OF ADMISSION TO THE FRESHMAN CLASS

1. ADMISSION BY EXAMINATION

Examinations for admission to the Freshman class are held in Wilson Hall on the Thursday, Friday, Saturday, and Monday next following Commencement in June, and also on the Thursday, Friday, Saturday, and Monday next preceding the beginning of the academic year in September. Candidates may be examined in all the subjects in June or in September, or in part in June and in the remainder in September, but they must conform strictly to the appointed schedule as to time and place for the several examinations.

The order of the examinations in 1905 will be as follows:

THURSDAY, JUNE 22 and SEPTEMBER 14

Algebra, Wilson Hall 27, 8 A. M. to 10 A. M.
Geometry, Wilson Hall 27, 10 A. M. to 12 M.
Elementary French, Wilson Hall 2, 1 P. M. to 3 P. M.
Advanced French, Wilson Hall 2, 4 P. M. to 6 P. M.

FRIDAY, JUNE 23 and SEPTEMBER 15

Elementary Greek, Wilson Hall 2, 8 A. M. to 10 A. M.
Astronomy, Wilson Hall 25, 8 A. M. to 10 A. M.
Advanced Greek, Wilson Hall 2, 10 A. M. to 11.30 A. M.
Physical Geography, Wilson Hall 25, 10 A. M. to 12 M.
Latin, Wilson Hall 25, 12.30 P. M. to 4 P. M.
English and American History, Wilson Hall 27, 4 P. M. to 6 P. M.
Freehand Drawing. Candidates will offer their plates for examination at Wilson Hall 2, at 2 P. M.

SATURDAY, JUNE 24 and SEPTEMBER 16

English, Wilson Hall 26, 8 A. M. to 10 A. M.
Chemistry, Wilson Hall 2, 11 A. M. to 1 P. M.
Solid Geometry, Wilson Hall 27, 2 P. M. to 4 P. M.
Plane Trigonometry, Wilson Hall 27, 4 P. M. to 6 P. M.

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MONDAY, JUNE 26 and SEPTEMBER 18

Elementary German, Wilson Hall 2, 8 A. M. to 10 A. M.
Advanced German, Wilson Hall 2, 10 A. M. to 12 M.
Ancient History, Wilson Hall 25, 1 P. M. to 3 P. M.
Physics, Wilson Hall 1, 4 P. M. to 6 P. M.

If desired, examinations will be appointed in cities remote from Providence. Correspondence on this subject should be addressed to the Registrar of the University, and sent at least four weeks before the time of the examinations.

Examinations conducted under the supervision of the College Entrance Examining Board will be accepted in place of the corresponding examinations conducted by Brown University. But a supplementary examination is necessary in case the examination given by the College Entrance Examining Board does not fully cover the Brown University requirement.

2. ADMISSION BY CERTIFICATE

Students are also admitted upon presentation of a certificate signed by the principal of any school which has the privilege of issuing certificates to Brown University.

In New England only schools approved by the New England College Entrance Certificate Board have this privilege. Principals of schools in New England who desire the certificate privilege for Brown University, or for any of the colleges represented on the New England College Entrance Certificate Board, should address the Secretary of the Board, Professor Nathaniel F. Davis, 159 Brown St., Providence, R. I., who will furnish the necessary application blanks. These blanks must be returned to him before April 1st of the year for which the certificate privilege is desired.

Certificates from the New York Board of Regents are accepted for the specified subjects so far as they coincide with the entrance requirements of Brown University. The principals of schools situated outside of New England who desire the certificate privilege must make application to the Registrar and furnish satisfactory evidence that the course of study in the school meets the requirements for admission. Blank forms for this purpose will be supplied on request. Application for the privilege of certification should be made before May 1st, in order that action may be taken by the close of the academic year.

Certificates are accepted for admission to the Freshman class only, not for admission to advanced standing. If any candidate offers for admission subjects in excess of those required, he may be examined in them at the appointed times above scheduled and receive credit for them as college studies.

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Blank forms for the certification of candidates may be obtained by the principals of schools on the accredited list from the Registrar. They should be sent to him by July 1st. When a student has attended more than one school, a letter of recommendation from the principal of the institution last attended should accompany the certificate.

REQUIREMENTS FOR ADMISSION TO THE FRESHMAN CLASS

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

The subjects are arranged in three groups, the figures in parenthesis in Groups II and III indicating the value in points assigned to each subject. For the amount required, reference is made to the paragraphs on pages 42–49 giving the details of the requirements.

In Group I all subjects must be presented.

In Group II subjects aggregating 6 points, including at least 3 points in ancient language and at least 1 point in modern language, must be presented.

In Group III one subject may be presented. Students who present no subject in Group III must present subjects aggregating 7 points in Group II.

GROUP I.

English	See	I,	page 42, 43
Algebra	"	II,	" 43
Geometry	"	III,	" 43, 44
Ancient History	"	XIV, 1,	" 47, 48

GROUP II.

Ancient Languages

Latin (elementary and advanced) (3)	See	VI, VII,	page 44
Greek (elementary) (2)	"	VIII,	" 45
Greek (advanced) (1)	"	IX,	" 45

Modern Languages

French (elementary) (1)	See	X,	page 45
French (advanced) (1)	"	XI,	" 46
German (elementary) (1)	"	XII,	" 46
German (advanced) (1)	"	XIII,	" 47

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GROUP III.

Solid Geometry and Plane Trigonometry	(1)	See IV, V,	page 44
English and American History	(1)	" XIV, 2,	" 47, 48
Physics	(1)	" XV,	" 48
Chemistry	(1)	" XVI,	" 48

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF PHILOSOPHY

The subjects are arranged in three groups, the figures in parenthesis in Groups II and III indicating the value in points assigned to each subject. For the amount required, reference is made to the paragraphs on pages 42-49 giving the details of the requirements.

In Group I all subjects must be presented.

In Group II two or more languages are required, aggregating from 3 to 7 points.

In Group III free selection is allowed to complete the 7 points.

GROUP I.

English	See I,	page 42, 43
Algebra	" II,	" 43
Geometry	" III,	" 43, 44
Ancient History	" XIV, 1,	" 47, 48
or		
English and American History	" XIV, 2,	" 47, 48

GROUP II.

Latin (elementary)	(2)	See VI,	page 44
Latin (advanced)	(1)	" VII,	" 44
Greek (elementary)	(2)	" VIII,	" 45
Greek (advanced)	(1)	" IX,	" 45
French (elementary)	(1)	" X,	" 45
French (advanced)	(1)	" XI,	" 46
German (elementary)	(1)	" XII,	" 46
German (advanced)	(1)	" XIII,	" 47

GROUP III.

Solid Geometry and Plane Trigonometry (1) See IV, V, page 44

History (the History not presented as a required subject) (1) See XIV, 1 or 2, page 47, 48

Physics	(1)	" XV,	" 48
Chemistry	(1)	" XVI,	" 48
Astronomy	(1)	" XVII,	" 48
Physical Geography	(1)	" XVIII,	" 49

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FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING, MECHANICAL ENGINEERING, OR ELECTRICAL ENGINEERING

The subjects are arranged in two groups. For the amount required, reference is made to the paragraphs on pages 42-49 giving the details of the requirements.

In Group I all subjects must be presented.

In Group II two subjects must be presented.

GROUP I.

English	See I,	page 42, 43
Algebra	" II,	" 43
Plane Geometry	" III,	" 43, 44
Solid and Spherical Geometry	" IV,	" 44
Freehand Drawing	" XIX,	" 49

GROUP II.

French (elementary)	See X,	page 45
German (elementary)	" XII,	" 46
Chemistry	" XVI,	" 48

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ENTRANCE REQUIREMENTS IN THE SEVERAL SUBJECTS

I.
ENGLISH

The preparation in English should include: (a) careful and prolonged training in grammar and composition; (b) thoughtful reading of all the prescribed books, and careful study of those named in division 3 below. It is recommended that the student also do as much supplementary reading as possible and commit to memory a considerable amount of poetry. The examination is intended to test the candidate's power of clear and accurate expression and his knowledge and appreciation of the books read. While the major part of the examination is devoted to the prescribed reading, the importance attached to the ability to write clearly and correctly is equal to that attached to a knowledge of the prescribed reading. A candidate will not be accepted if his answers are seriously defective in spelling, use of capitals, punctuation, grammar, use of words, or structure of sentences and paragraphs, or if they show insufficient acquaintance with the subject-matter of the prescribed books. As additional evidence of preparation the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work. The examination consists of three parts, which, however, cannot be taken separately:

1. In the first part the candidate will be required to answer elementary questions in grammar and usage and to correct some examples of bad grammar and faulty choice of words.

2. In the second part the candidate must show a good general knowledge of the subject-matter of the books named; he should be able to state the leading thoughts of an essay, and to tell the main incidents, sketch the principal characters, and describe the striking scenes of a poem or novel. He should also be able to answer simple questions on the lives of the authors.

In 1905 the books for this portion of the examination will be: Shakspere's *Merchant of Venice* and *Julius Cæsar; The Sir Roger de Coverley Papers* in *The Spectator;* Goldsmith's *Vicar of Wakefield;* Coleridge's *Ancient Mariner;* Scott's *Ivanhoe;* Carlyle's *Essay on Burns;* Tennyson's *Princess;* Lowell's *Vision of Sir Launfal;* George Eliot's *Silas Marner.*

In 1906, 1907, and 1908 they will be: Shakspere's *Macbeth* and *The Merchant of Venice; The Sir Roger de Coverley Papers* in *The Spectator;* Irving's *Life of Goldsmith;* Coleridge's *Ancient Mariner;* Scott's *Ivanhoe*

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and *The Lady of the Lake;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Lowell's *Vision of Sir Launfal;* George Eliot's *Silas Marner.*

3. The third part requires careful and detailed study of the works named below. The examination covers subject-matter, logical structure, and literary form. Questions are asked about the style, the verse, the structure of the plots, the development of the characters, the meaning of words and allusions, and (in the case of essays and speeches) the logical structure of the whole.

In 1905 the books for this portion of the examination will be: Shakspere's *Macbeth;* Milton's *L'Allegro, Il Penseroso, Comus,* and *Lycidas;* Burke's *Speech on Conciliation with America;* Macaulay's *Essays on Milton and Addison.*

In 1906, 1907, and 1908 they will be: Shakspere's *Julius Cæsar;* Milton's *L'Allegro, Il Penseroso, Comus,* and *Lycidas;* Burke's *Speech on Conciliation with America;* Macaulay's *Essay on Milton,* and *Life of Johnson.*

II.

ALGEBRA

Through equations of the second degree.

Although candidates are not examined in Arithmetic, a knowledge of its fundamental principles and a careful training in accurate computation with whole numbers and with vulgar and decimal fractions are regarded as essential parts of a preparatory course.

The requirement in Algebra includes the following subjects: factors, common divisors, and multiples; fractions, ratios, and proportions; negative quantities and the interpretation of negative results; the doctrine of exponents; radicals, and equations involving radicals; the binomial theorem for positive integral powers of the binomial, and the extraction of roots; putting questions into equations, and the reduction of equations; the ordinary methods of elimination, and the solution of both numerical and literal equations of the first and second degrees with one or more unknown quantities, and of problems leading to such equations; arithmetical and geometrical progression.

It is very important that the student should acquire a thorough knowledge not only of the practice, but also of the reasons involved in the elementary algebraic rules. He should likewise be able to use readily the more important formulæ, as, for example, the quadratic formula.

III.

PLANE GEOMETRY

The propositions which are contained in the ordinary treatises and which are recognized as constituting the elements of Geometry; original propositions and problems in mensuration.

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Teachers of Geometry should lay stress on accuracy of statement and elegance of form as well as on clear and strict reasoning. They should avoid mere memory work, and should take special care in the proof of a proposition that no lines be drawn unless their construction is proved to be possible.

The school curriculum ought to be so arranged that not a single term, much less a year, shall pass without some time being given to a mathematical subject, and that both Algebra and Geometry shall be taken either in review or in advance during the last year of the course. For a four-year course an average of two and one-half hours a week should be given to mathematics.

IV.

SOLID GEOMETRY

The equivalent of the Solid and Spherical Geometry presented in Wells's *Geometry*, omitting the portion dealing with Regular Polyhedrons.

V.

PLANE TRIGONOMETRY

The equivalent of what is presented in the first seventy-six pages of Wells's *New Plane and Spherical Trigonometry*.

VI.

ELEMENTARY LATIN

1. Cæsar. *Gallic War*, books I-IV, or books I-III and Sallust's *Catiline*, with questions on the forms, the constructions, and subject-matter.

2. Cicero. The *Orations against Catiline* and the *Oration for Archias*, with questions on the grammar and the subject-matter.

3. Ovid. Twenty-five hundred lines, with questions on the subject-matter and prosody.

4. Translation at sight of ordinary passages from Cæsar and Cicero, with questions on the ordinary forms and constructions.

5. Translation into Latin of simple English sentences.

VII.

ADVANCED LATIN

1. Includes 1, 2, 3 mentioned under Elementary Latin.

2. Vergil. *Æneid*, books I-VI, or books I-V and the *Eclogues*, with questions on the constructions, subject-matter, and prosody.

3. Translation at sight of prose and verse, with questions on the constructions, subject-matter, and prosody.

4. Translation into Latin of a continuous passage of English narrative, prepared from some portion of the prescribed prose.

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VIII.

ELEMENTARY GREEK

1. Xenophon's *Anabasis*, books I, II, III, IV, regard being had not only to language but to subject-matter as well.

2. Grammar. A familiar knowledge of inflection, word-formation, and ordinary syntax.

3. Composition. Preparation in writing *connected* Greek prose. Thorough work in any text-book will be accepted. Candidates must show ability to write in Greek, with accents, an ordinary passage of English based upon material similar to the Anabasis.

IX.

ADVANCED GREEK

Three books of Homer, or *Anabasis*, books V, VI, VII, or *Anabasis*, book V and *Hellenica*, books I and II. Students will also be expected to show proficiency in the grammar and composition mentioned in the elementary requirement.

X.

ELEMENTARY FRENCH

1. Proficiency in elementary French grammar, implying, especially, familiarity with the following topics: inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular verbs and of the more usual irregular verbs, such as *dire*, *faire*, and the classes represented by *ouvrir*, *sentir*, *venir*, *paraître*, *conduire* and *craindre*.

The mention of these topics is not to be understood as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work depends.

2. Ability to translate simple prose at sight.

It is believed that the required facility can be gained by reading, concurrently with the grammar work, from two hundred to four hundred duodecimo pages, of at least three dissimilar works. It is desired that the books read shall not be those assigned in the University courses.

3. Ability to pronounce French and to recognize French words and simple phrases when spoken.

It is recommended that from the beginning careful attention be given to the fluent and intelligent reading aloud of the French texts used in the class-room.

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XI.

ADVANCED FRENCH

1. The translation at sight of standard French into idiomatic English.

2. The translation into French of a connected passage of English prose, to test the candidate's familiarity with grammar. Proficiency in grammar may also be tested by direct questions.

3. The writing of French from dictation.

Candidates will be expected to show a thorough knowledge of accidence, and familiarity with the essentials of French syntax, especially the uses of tenses, modes, prepositions, and conjunctions.

The work should comprise the reading of from four hundred to six hundred pages of ordinary French, including the amount read for the elementary requirement; constant practice in giving French paraphrases, abstracts or reproduction from memory of selected passages; the study of a grammar of moderate completeness; writing from dictation.

XII.

ELEMENTARY GERMAN

1. Proficiency in elementary German grammar, implying, especially, familiarity with the following topics: declension of such nouns as are readily classified and of adjectives and pronouns; conjugation of weak verbs and of the more usual strong verbs; the commoner prepositions; the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

The mention of these topics is not to be understood as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work depends.

2. Ability to translate a passage of simple prose at sight, when a vocabulary of the less usual words is furnished.

It is believed that the required facility can be gained by reading, concurrently with the grammar work, two hundred duodecimo pages of easy German, chiefly narrative prose, with a few lyric poems. It is desired that the books read shall not be those assigned in the University courses.

3. Ability to pronounce German and to recognize German words and simple phrases when spoken.

It is recommended that from the beginning careful attention be given to the fluent and intelligent reading aloud of the German texts used in the class-room.

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XIII.

ADVANCED GERMAN

In addition to the elementary requirements:

1. Ability to translate at sight ordinary German into idiomatic English, the passages for translation being suited to the proficiency of those who have read not less than five hundred pages of classical and contemporary prose and verse selected from such works as Lessing's *Minna von Barnhelm;* Schiller's *Wilhelm Tell, Maria Stuart, Jungfrau von Orleans,* and *Gedichte;* Goethe's *Hermann und Dorothea* and *Gedichte;* Heine's *Reisebilder* and *Gedichte;* Freytag's *Die Journalisten* and *Bilder aus der Vergangenheit;* Scheffel's *Der Trompeter von Säkkingen;* Uhland's *Gedichte;* Hoffmann's *Historische Erzählungen;* Meyer's *Gustav Adolf's Page;* Riehl's *Novellen.*

It is recommended that at least one-half of the reading be selected from the works of Lessing, Schiller, and Goethe.

2. Ability to state the main facts in the life of each author studied and to discuss the characters in the dramas read.

3. Ability to read aloud every text intelligently in the original. Such proficiency can be acquired only by constant oral practice in the classroom.

4. A knowledge of the elements of word-formation and of the principal uses of prepositions, conjunctions, modal auxiliaries, the subjunctive mode, and the infinitive.

Preparation for the advanced examination by candidates already prepared for the elementary examination should occupy at least five recitation periods a week in the last year of the preparatory course, or a smaller number of periods more widely distributed.

XIV.

HISTORY

Either of the two following groups, each including two fields of historical study:

1. Greek and Roman history. (a) Greek history to the death of Alexander, with due reference to Greek life, literature, and art. (b) Roman history to the end of the reign of Marcus Aurelius, with due reference to literature and government.

2. English and American history. (a) English history, with due reference to social and political development. (b) American history, with the elements of civil government.

For preparation in either (1) or (2) a course of study equivalent to at least three lessons a week for one year will be necessary, or five lessons a week for one year for both one and two.

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The candidates will be expected to show such general knowledge of each field as may be acquired from the study of an accurate modern text-book of not less than three hundred pages, supplemented by not less than three hundred pages of suitable parallel readings.

XV.
PHYSICS

The equivalent of Hall and Bergen's *Text-book of Physics*, together with an approved laboratory course of at least forty experiments.

XVI.
CHEMISTRY

Candidates will be expected to have a good knowledge of the non-metals and their principal combinations, the metals and their principal salts, the more important topics of chemical philosophy, chemical nomenclature and notation, and the ordinary methods of stoichiometry. Candidates should have personally performed about one hundred simple experiments (those in Appleton's *Young Chemist* are mentioned as illustrations, but equivalents will be accepted). Each candidate is expected to submit his manuscript notes, or reports of his work. A course accomplishing the preparation above outlined will require an amount of time equivalent to three hours a week for one school year.

XVII.
ASTRONOMY

Class instruction for the equivalent of three hours a week for a school year in the elementary principles of the science, including observations of the heavens with reference to the positions and movements of the heavenly bodies. The following are the chief topics to be studied:

The Celestial Sphere; designation of the directions of a heavenly body.

The Earth—its axial rotation; time, latitude, longitude; its orbital revolution; precession, aberration, the seasons, equation of time, the calendar.

The Moon—its axial rotation, orbital motion, librations, phases, surface features, physical condition; lunar and solar eclipses.

The Sun—its rotation, physical characteristics, light, and heat.

The Planets—apparent and real motions, individual characteristics.

The Law of Gravitation—its control of the solar system; the tides.

Comets and Meteors.

The Stars; designation, classification by constellations, motions, distance, brightness, variables.

Stellar Systems; clusters, nebulæ; the stellar universe, cosmogony.

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XVIII.

PHYSICAL GEOGRAPHY

Class instruction in the elementary principles of the science for the equivalent of three hours a week for a school year. It should include the following subjects:

The Earth as a member of the solar system.

The Atmosphere; its nature, temperature, pressure, moisture and precipitation, circulation, storms, weather, climate.

The Oceans; form and general characteristics, life within the oceans, waves, currents, tides.

The Lands; distribution, structure, processes of denudation and reconstruction and the resulting topographic features such as plains, plateaus, mountains, valleys, hills, volcanoes.

Life on the earth; influence of nature on man, influence of man on nature.

XIX.

FREEHAND DRAWING

Candidates will be required to show ability to execute plain lettering with readiness and neatness; to make orthographic sketches of simple machine parts; to make intelligible perspective sketches of simple models, assuming different points of observation and applying the principles of shade and shadow. Candidates should submit to the head of the department of drawing a complete set of drawings made under the supervision of a teacher of drawing and properly certified by him.

REGULATIONS GOVERNING ADMISSION TO ADVANCED STANDING

A candidate for admission to advanced standing who comes from an approved institution of collegiate rank may receive credit, without examination, for work done at such institution, provided that he present a detailed statement of his previous work and his standing therein, signed by the proper official. The amount of credit to be given is determined by the Committee on Admission to Advanced Standing.

Every other candidate for admission to advanced standing must first satisfy the entrance requirements of the course which he desires to enter. He may then receive credit for any subject included in the curriculum of the course, provided, first, that he notify in writing the Committee

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on Admission to Advanced Standing at the time he applies for admission to the University of his intention to present such subject, and second, that he pass an examination in the subject before a date set by said Committee.

Every candidate must present a letter of honorable dismissal from the institution last attended.

Formal application for admission should be made to the Registrar, and should be sent, if possible, before August 1st.

REGULATIONS GOVERNING ADMISSION OF SPECIAL STUDENTS

The various courses of study in the University, both graduate and undergraduate, are open to mature persons of good character who have had the training requisite to pursue them with profit. This privilege is intended for those who wish to take advantage of the instruction offered in special branches without pursuing the full course of study required of candidates for a degree.

All students who can do so are advised to matriculate for a degree, and no one will be allowed to use the privilege here offered for the purpose of securing a merely nominal connection with the University.

Special students are subject to the same regulations regarding attendance and examinations as candidates for degrees, and must take fifteen hours of class-room work a week unless satisfactory reasons for a smaller assignment can be presented.

Applicants for special courses must present to the Registrar of the University, on or before August 1st if possible, a certified and detailed statement of the character and extent of their preparatory work, including testimonials of character and ability from the last school or college attended. In case a student has attended several preparatory schools, he must present credentials from all.

Students who withdraw from a preparatory school before completing its course of study will not be admitted as special students unless the principal of the school distinctly recommends such action.

Applicants must satisfy the officers of instruction, by examination or otherwise, that they are qualified to pursue the courses desired.

Special students will be admitted as candidates for a degree only after they have fully satisfied the requirements for admission either by certificate or by examination.

On leaving the University, a special student who desires a formal certificate of his attainments may receive it.

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REGULATIONS GOVERNING ADMISSION OF GRADUATE STUDENTS

REGISTRATION

To be registered as a graduate student, the applicant either must have received the degree of Bachelor of Arts, of Philosophy, of Science,* or of Letters from an institution of good standing; or, being a candidate for the degree of Bachelor of Arts, of Philosophy, or of Science in Brown University, and having attained a rank of credit in the first three years of the undergraduate course, must have completed by the end of the third year the amount of work required for the baccalaureate degree for which he is a candidate, except the equivalent of extra work authorized by the Committee on Advanced Standing. But any student who, at the end of the third year of the undergraduate course, has to his credit less than the amount of work above indicated, may, after graduation, offer in fulfillment of the requirements for the degree of Master of Arts such extra work as he may have done in the undergraduate course, provided such extra work is in courses which may be taken by graduates and does not lie in more than three departments, and provided the student has completed the extra work with credit.

On or before the first day of the academic year, each candidate for registration must file an application with the Dean of the Graduate Department, naming the departments, not exceeding three, which he wishes to enter. The application must be made on a blank provided by the Dean, and the blank must be signed by the heads of the departments concerned. The candidate, if not a student or graduate of Brown University, must submit to the Dean, with his application, his diploma or other official evidence of having received a first academic degree, together with a marked catalogue or detailed statement showing the academic courses he has pursued. Applications from students unable to register at the beginning of the year will be considered at any time.

ENROLLMENT

A student who has been duly registered as a graduate student is enrolled as a candidate for a degree when his course of study for the degree has been approved by the Committee on Graduate Students and by the Faculty. To drop a course it is necessary to petition the Dean of the Graduate Department in writing, and to accompany the petition with

*NOTE: The degree of Bachelor of Science, when given for technical work does not lead to the degree of Master of Arts or Doctor of Philosophy in Brown University. The degree of Bachelor of Science referred to in these regulations means a degree given for a course of liberal study.

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the approval of the head of the department which offers the course.

Although graduates of other colleges of good standing are entitled to registration as graduate students, they are not enrolled as candidates for degrees unless the course of study pursued by them in the institution from which they come is, in the opinion of the Dean of the Graduate Department acting in consultation with the Committee on Advanced Standing, substantially equivalent to the course leading to the corresponding degree in Brown University. While, as a rule, the privilege of enrollment, subject to the general regulations of the Faculty, is granted to graduates of colleges and universities of high standing, each case is considered on its merits. Graduates of colleges whose course of study is not, in the opinion of this joint Committee, equivalent to the corresponding course at Brown University may be registered as graduate students, but if enrolled they will be required to make up their deficiency under the direction of the Committee.

SPECIAL GRADUATE STUDENTS

Persons who have obtained the degree of Bachelor of Arts, of Philosophy, of Science, or of Letters, and who desire to pursue graduate studies without being candidates for an advanced degree, are allowed to register as special graduate students. Such students are subject to all the regulations of the University regarding graduate students except those which relate to candidacy for degrees.

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Requirements for Degrees

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

1. PRESCRIBED SUBJECTS

Ancient Languages (either Latin or Greek or both). Six hours.

At least three hours must be taken in the Freshman year, and the whole six hours must be completed by the end of the Sophomore year.

Modern Languages (either French or German or both). Six hours.

At least three hours must be taken in the Freshman year, and the whole six hours must be completed by the end of the Sophomore year.

Students presenting German only must take elementary French. Students presenting French only must take elementary German. Students presenting elementary French only must continue French in the Freshman year and take elementary German in either the Freshman or the Sophomore year. Students presenting elementary German only must continue German in the Freshman year and take elementary French in either the Freshman or the Sophomore year. Students presenting elementary French and elementary German only must continue both languages, but may postpone the continuation of one language to the Sophomore year. Students presenting elementary work in one language and elementary and advanced work in the other must take in the Freshman year the language in which the elementary work only was presented. Students presenting elementary and advanced work in both languages may take the required six hours in either French or German or both.

Mathematics. Freshman year. Four or five hours.

Those who present Solid and Spherical Geometry and Plane Trigonometry must take Mathematics five hours a week during the Freshman year. This includes the courses now numbered Mathematics 4, 5, 6, 7, 9, 10, and 12. Students taking these courses will be enabled to begin work in the sciences requiring Mathematics one year earlier than other students.

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English (Rhetoric and Composition). Freshman year. Three hours.

European History. Three hours.
First and second terms, Sophomore or Junior year.

English Literature. Some three-hour course continuous through the year.
Sophomore, Junior, or Senior year.

Physical or Natural Science. Some three-hour course continuous through the year.
Freshman, Sophomore, or Junior year.

Political Science, Social Science, and Political Economy. The one-term elementary course in each of the three departments.
Sophomore, Junior, or Senior year.

Philosophy. Some three-hour course continuous through the year.
Sophomore, Junior, or Senior year.

NOTE: Candidates for the degree of Bachelor of Arts in June, 1905, are also required to take English 4, 5, 6, unless they have already received credit for the course.

2. REQUIREMENTS ARRANGED BY YEARS

FRESHMAN YEAR

I. *Required Studies.*
Latin 1, 2, 3, or Greek A, B, C or 1, 2, 3. Three hours.
French A, B, C or 1, 2, 3, or German 1, 2, 3, or 24, 25, 26. Three hours.
Mathematics 3, 1, 2. Four hours, or
Mathematics 4, 5, 6, 7, 9, 10, 12. Five hours.
English 1, 2, 3. Three hours.

II. *Elective Studies.* One three-hour course running through the year must be chosen from the following list:
Latin 1, 2, 3. For students presenting elementary and advanced Latin for admission.
Greek A, B, C. For students presenting no Greek for admission.
Greek 1, 2, 3. For students presenting elementary and advanced Greek for admission.
French A, B, C. For students presenting no French for admission.
French, 1, 2, 3. For students presenting elementary French for admission.
French 10, 11, 12. For students presenting advanced French for admission.
German 1, 2, 3. For students presenting no German for admission.

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German 24, 25, 26. For students presenting elementary German for admission.

German 34, 35, 36. For students presenting advanced German for admission.

Greek 46, Latin 46, 47, (History of Greek and Roman Life and Institutions). For all students.

Chemistry 1, 2, 3. For all students.

Chemistry 4, 5, 6. For students presenting Chemistry for admission (subject to the consent of the department).

Botany 1, 2, 3. For all students.

Comparative Anatomy 15, 1, 35. For all students.

SOPHOMORE YEAR

I. That portion of the required work in ancient and modern languages not completed in the Freshman year.

II. *Other required and elective courses sufficient with those taken under I. to make fifteen hours a week.

JUNIOR YEAR

I. The required History and Physical or Natural Science, if not previously taken.

II. *Other required and elective courses sufficient with those taken under I. to make fifteen hours a week.

SENIOR YEAR

I. All required courses not previously taken.

II. *Elective courses sufficient with those taken under I. to make fifteen hours a week.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF PHILOSOPHY

1. PRESCRIBED SUBJECTS

Modern Languages. An amount sufficient with the work presented for admission to complete the elementary course and a year of advanced work in both French and German. A student who is admitted in both advanced French and advanced German is required to continue only one of these languages for one year, three hours a week.

* See Table of Elective Studies; also statements under Courses of Instruction.

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**Mathematics.* Freshman year. Four or five hours.

English (Rhetoric and Composition). Freshman year. Three hours.

European History. Three hours.
First and second terms, Sophomore or Junior year.

Physical or Natural Science. Some three-hour course continuous through the year.
Freshman, Sophomore, or Junior year.

Philosophy. Some three-hour course continuous through the year.
Sophomore, Junior, or Senior year.

NOTE: Candidates for the degree of Bachelor of Philosophy in June, 1905, are required to take English 4, 5, 6, unless they have already received credit for the course.

2. REQUIREMENTS ARRANGED BY YEARS

FRESHMAN YEAR

I. *Required Studies.*

English 1, 2, 3. Three hours.
French A, B, C or 1, 2, 3, or } Three hours.
German 1, 2, 3 or 24, 25, 26 }
Mathematics 3, 1, 2. Four hours, or
Mathematics 4, 5, 6, 7, 9, 10, 12. Five hours.

II. *Elective Studies.* Two three-hour courses running through the year must be chosen from the following list:

Latin 1, 2, 3. For students presenting elementary and advanced Latin for admission.

Greek A, B, C. For students presenting no Greek for admission.

Greek 1, 2, 3. For students presenting elementary and advanced Greek for admission.

French A, B, C. For students presenting no French for admission.

French 1, 2, 3. For students presenting elementary French for admission.

French 10, 11, 12. For students presenting advanced French for admission.

German 1, 2, 3. For students presenting no German for admission.

German 24, 25, 26. For students presenting elementary German for admission.

German 34, 35, 36. For students presenting advanced German for admission.

* Five hours for students presenting for entrance Solid and Spherical Geometry and Plane Trigonometry. See the statement under Mathematics on page 53.

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Greek 46, Latin 46, 47, (History of Greek and Roman Life and Institutions). For all students.

Chemistry 1, 2, 3. For all students.

Chemistry 4, 5, 6. For students presenting Chemistry for admission (subject to the consent of the department).

Botany 1, 2, 3, For all students.

Anatomy 15, 1, 35. For all students.

Drawing 16, 17, 18. For all students.

SOPHOMORE YEAR

I. That portion of the required work in modern languages not completed in the Freshman year.

II. *Other required and elective courses sufficient with those taken under I. to make fifteen hours a week.

JUNIOR YEAR

I. The required History and Physical or Natural Science, if not previously taken.

II. *Other required and elective courses sufficient with those taken under I. to make fifteen hours a week.

SENIOR YEAR

I. All required courses not previously taken.

II *Elective courses sufficient with those taken under I. to make fifteen hours a week.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING

FRESHMAN YEAR

First Term	*Second Term*	*Third Term*
Mathematics 38	Mathematics 39	Mathematics 40
Drawing 1	Drawing 5	Drawing 6
Civil Engineering 25	Civil Engineering 26	Civil Engineering 27
English 1	English 2	English 3
French 1 or German 24	French 2 or German 25	French 3 or German 26
	Gymnasium	

* See Table of Elective Studies ; also statements under Courses of Instruction.

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SOPHOMORE YEAR

Mathematics 41	Mathematics 42	Mathematics 43
Civil Engineering 1	Civil Engineering 2	Civil Engineering 3
Physics 1	Civil Engineering 4	Physics 4
*Social Science 12	Physics 2	*Political Economy 12
	*Political Science 12	†Civil Engineering 8a, 8
	Gymnasium	Civil Engineering 34

Also, of the following courses, the subject not presented for admission:

Chemistry 1	Chemistry 2	Chemistry 3
French A	French B	French C
German 1	German 2	German 3

JUNIOR YEAR

Civil Engineering 5, 5a	Civil Engineering 6	Civil Engineering 7
Mechanics 3	Mechanics 4	Mechanics 6
Astronomy 3	Astronomy 4	Astronomy 5
Physics 5	Physics 9	Physics 10
Physics 11	Physics 12	Physics 15
	Civil Engineering 10	Civil Engineering 16
	Gymnasium	

SENIOR YEAR

Civil Engineering 28	Civil Engineering 31	Civil Engineering 11
Civil Engineering 29	Civil Engineering 32	Civil Engineering 17
Civil Engineering 30	Civil Engineering 36	Civil Engineering 18
Mech. Engineering 40	Civil Engineering 37	Civil Engineering 33
Mechanics 7	Civil Engineering 39	Civil Engineering 38
Geology 1	Civil Engineering 41	Civil Engineering 40
Thesis	Mech. Engineering 41	Thesis
	Mechanics 8	
	Thesis	
	Gymnasium	

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

FRESHMAN YEAR

First Term	*Second Term*	*Third Term*
Mathematics 38	Mathematics 39	Mathematics 40
Drawing 1	Drawing 5	Drawing 6
Civil Engineering 25	Civil Engineering 26	Civil Engineering 27
English 1	English 2	English 3
French 1 or German 24	French 2 or German 25	French 3 or German 26
	Gymnasium	

*Or some other course, not technical, chosen with the approval of the head of the Department of Civil Engineering.

†Civil Engineering 8a is taken during the spring recess.

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SOPHOMORE YEAR

Mathematics 41	Mathematics 42	Mathematics 43
Drawing 10	Drawing 11	Mech. Engineering 20
Physics 1	Physics 2	Physics 4
*Social Science 12	*Political Science 12	*Political Economy 12
	Mech. Engineering 10	Mech. Engineering 11
	Gymnasium	

Also of the following courses, the subject not presented for entrance:

Chemistry 1	Chemistry 2	Chemistry 3
French A	French B	French C
German 1	German 2	German 3

JUNIOR YEAR

Mech. Engineering 30	Mech. Engineering 31	Mech. Engineering 32
Mech. Engineering 33	Mech. Engineering 34	Mech. Engineering 35
Mech. Engineering 12	Mech. Engineering 13	Mech. Engineering 14
Mech. Engineering 21	Mech. Engineering 22	Mech. Engineering 23
Mechanics 3	Mechanics 4	Mechanics 6
Physics 5	Physics 9	Physics 10
	Gymnasium	

SENIOR YEAR

Mech. Engineering 40	Mech. Engineering 41	Mech. Engineering 42
Mech. Engineering 15	Mech. Engineering 16	Mech. Engineering 43
Mech. Engineering 24	Mech. Engineering 25	Mech. Engineering 26
Mechanics 7	Mechanics 8	Mech. Engineering 27
Physics 11	Physics 12	Physics 15
Thesis	Thesis	Thesis
	Gymnasium	

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

FRESHMAN YEAR

First Term	*Second Term*	*Third Term*
Mathematics 38	Mathematics 39	Mathematics 40
Drawing 1	Drawing 5	Drawing 6
Civil Engineering 25	Civil Engineering 26	Civil Engineering 27
English 1	English 2	English 3
French 1 or German 24	French 2 or German 25	French 3 or German 26
	Gymnasium	

*Or some other course, not technical, chosen with the approval of the head of the Department of Mechanical Engineering.

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SOPHOMORE YEAR

Mathematics 41	Mathematics 42	Mathematics 43
Drawing 10	Drawing 11	Mech. Engineering 20
Physics 1	Physics 2	Physics 4
*Social Science 12	*Political Science 12	*Political Economy 12
	Mech. Engineering 10	Mech. Engineering 11
	Gymnasium	

Also, of the following courses, the subject not presented for entrance:

Chemistry 1	Chemistry 2	Chemistry 3
French A	French B	French C
German 1	German 2	German 3

JUNIOR YEAR

Mechanics 3	Mechanics 4	Mechanics 6
Mech. Engineering 12	Mech. Engineering 13	Mech. Engineering 14
Mech. Engineering 21	Mech. Engineering 22	Mech. Engineering 23
Physics 5	Physics 9	Physics 10
Physics 11	Physics 12	Physics 15
Physics 41	Physics 40	Physics 42
	Gymnasium	

SENIOR YEAR

Mechanics 7	Mechanics 8	Civil Engineering 11
Mathematics 15	Physics 39	Physics 21
Physics 33	Physics 34	Physics 35
Physics 36	Physics 44	Physics 46
Physics 43	Physics 45	Physics 47
Thesis	Thesis	Thesis
	Gymnasium	

REGULATIONS UNDER WHICH A STUDENT MAY BE PERMITTED TO TAKE A FIRST DEGREE IN LESS THAN FOUR YEARS

A candidate for a first degree, who has passed in the required number of hours of work and all the required subjects, may, at the end of the term in which his work is completed, be excused from further attendance at the University and may receive his degree at the Commencement next following such term.

A candidate for a first degree who has maintained a satisfactory standing in his studies may, subject to the consent of the Committee on Ad-

*Or some other course, not technical, chosen with the approval of the head of the Department of Electrical Engineering.

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mission to Advanced Standing, take work in addition to the regular number of hours provided for in the curriculum of the course which he is pursuing.

A candidate for a first degree may receive credit for work done at the summer school of an approved institution of collegiate rank, provided that the work have the approval of the head of the related department in Brown University. Equivalent credit for the work given at the institution in question will be allowed at Brown University, but the total credit for work at summer schools for any one summer shall in no case exceed fifteen term hours.

A candidate for a first degree may, with the consent of the head of any department and with the approval of the faculty, pursue studies connected with said department during any summer in which he does not attend a summer school, and may receive credit for such studies, provided, first, that the work be under the supervision of the head of the department concerned; second, that he pass an examination in all the work before the end of the following term. The amount of credit for work of this kind shall be determined by the head of the department, but the total credit for any one summer shall not exceed nine term hours. No student will be allowed to do summer work in connection with any department of the University until he has presented to the head of the department a registration slip properly filled, and signed by the Registrar.

If a student at the beginning of his senior year lacks less than forty-five term hours of completing his course he may, for reasons deemed sufficient by the Committee on Admission to Advanced Standing, distribute his work over the year.

If a student at the beginning of any term lacks less than fifteen term hours of completing his course he may, for reasons deemed sufficient by the Committee on Admission to Advanced Standing, be excused from taking more than the necessary number of hours.

For conditions under which graduate work may be pursued during the Senior year, see page 51.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

To obtain the degree of Master of Arts, the candidate must have obtained the degree of Bachelor of Arts, of Philosophy, of Science,* or of Letters, or, being a candidate for the degree of Bachelor of Arts or Bachelor of Philosophy in Brown University, must have been duly enrolled as a candidate for the degree of Master of Arts in the way previously specified, and must have completed a course of liberal graduate study, in addition to that required for the bachelor's degree, of not less than fifteen hours a week for one year, and must have passed satisfactory examinations thereupon. When graduate students pursue courses primarily designed

*See foot note, page 51.

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for undergraduates, a higher degree of scholarship will be required than in the case of undergraduates.

Work definitely specified as done in residence for an advanced degree at another institution, and not to be used in fulfillment of the requirements for any advanced degree elsewhere, may, with the approval of the Dean of the Graduate Department, be offered in partial fulfillment of the requirements for the degree of Master of Arts; but the equivalent of at least nine hours' work a week for one year must be done at Brown University.

By continuous residence at the University, candidates fulfilling the conditions specified above may obtain the degree in one year. In cases of partial or entire non-residence, the degree of Master of Arts will not be conferred until after two years of study; the work required is the equivalent of fifteen hours a week for one year. Candidates for this degree, registered in absentia, who desire some instruction at the University, may register for the courses desired. A final public examination is required of all candidates in absentia.

The degree of Master of Arts in absentia must be taken within three years after enrollment, unless the period is extended by special action of the Faculty. Candidacy may be terminated for cause at any time within six months after registration.

Candidates in absentia must register (by correspondence if necessary) at the beginning of each college year, and make reports to their instructors at the end of each term.

The examination of a candidate for the degree of Master of Arts in absentia will be held only when notification of the intention to appear for examination is given on or before April 1st of the year in which the candidate desires to receive the degree.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

To obtain the degree of Doctor of Philosophy, the candidate must first have obtained the degree of Bachelor of Arts, of Philosophy, of *Science, or of Letters. He must spend at least two years continuously in residence, pursuing a systematic course of advanced study approved by the Graduate Department, the Faculty, and the Board of Fellows, and pass satisfactory examinations on the same. Work definitely specified as done in residence toward the degree of Doctor of Philosophy at another institution, and not to be used in fulfillment of the requirements for any advanced degree elsewhere, may, with the approval of the Dean of the Graduate Department, be offered in partial fulfillment of the requirement for the degree of Doctor of Philosophy. One full year of continuous work, however, must be spent at Brown University. The candidate must conclude his course with a

*See foot-note, page 51.

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thesis embodying the results of original research, giving evidence of high scholarship and of special attainments in the studies pursued, and constituting as a whole a definite contribution to knowledge. The candidate is examined publicly before the first day of June by a committee consisting in each case of the Graduate Department, together with those members of the Faculty who have directed the work of the candidate and any other officers of professorial rank in the respective departments. The examination is held only when notification of the intention to appear for examination is given on or before April 1st of the year in which the candidate desires to obtain his degree. The thesis of a candidate for the degree of Doctor of Philosophy must be presented to the Faculty, in typewritten copy or print, before May 1st, in that year. The approval of this thesis by the Faculty is essential to the attainment of the degree.

For the degree of Doctor of Philosophy work in at least two subjects is necessary, a major and a minor, not in the same department. The work of the major subject must amount to not less than three-fifths of the whole. The selection of the courses constituting the major and minor subjects must receive the approval of the head of the department in which the major subject lies, and of the Dean of the Graduate Department. The approval of the head of the department in which the minor subject lies is also necessary for the courses elected in his department.

The candidate must further possess a reading knowledge of Latin, German, and French suitable for the purposes of his special studies, unless for sufficient reasons excused in respect to one of these languages. To test the candidate's proficiency in this particular, he is examined before December 1st, in the last year of his candidacy, by a committee consisting of the heads of the departments in which the major and minor subjects lie, and the heads of the departments of Latin, German, and French.

A year of work for the degree of Master of Arts may be, but is not necessarily, counted as a year of work for the degree of Doctor of Philosophy.

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Courses of Instruction

In every department courses listed together (e. g. Art 14, 15, 16) are regarded as forming a unit, and unless specific statement to the contrary is made, the second term may not be elected without the first, nor the third without the second.

I. ART

Professor POLAND

Courses 1, 4, and 6 may be taken independently, but students are advised to elect all three in the above order, in which order they form a consecutive historical outline. Course 1 should be taken, if possible, before any other course in the history of art. Courses 7, 9 follow consecutively after 6. Courses 10, 11, and 3 are especially designed for those who wish to do advanced work in classical archæology, philology, or history.

1. *Ancient Art or Classical Archæology.*

Three hours. First Term. Elective for Juniors, Seniors, and Graduates.

A general course in the history of ancient art, chiefly Greek. Text-book; lectures illustrated by casts, slides, photographs, and engravings; collateral reading.

4. *Roman, Early Christian, and Mediæval Art.*

Three hours. Second Term. Elective for Juniors, Seniors, and Graduates.

Study of Roman, Romanesque, and Gothic art, with some notice of Byzantine, Arabian, and Oriental art. Text-book, lectures, lantern views.

6. *Art of the Renaissance.*

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates.

The fifteenth and sixteenth centuries. The effect on art of the dominant motives of the epoch, the development of art in the different countries of Europe, the great masters and their most significant works. Text-book, lectures, lantern views.

14, 15, 16. *Practical Work in Art.*

Three hours. Through the year. Elective for students who are taking, or who have passed in Art 1, 4, 6, and who have also passed in Drawing 2, 3, 4, or have equivalent proficiency in drawing. Given at the Rhode Island School of Design.

Six hours of drawing or other practical work. To illustrate the principles of delineation, color, and chiaroscuro, and the principles of design in architecture, sculpture, and painting, as exemplified in the historic forms of art.

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[I. Art, continued.]

7, 9. *Modern Art.*

Three hours. First and Second Terms. Elective for Juniors, Seniors, and Graduates, who have passed in 6.

First Term, the seventeenth and eighteenth centuries; Second Term, the nineteenth century. Text-books, lectures, special assigned topics, lantern views.

8. *Theory and Criticism of the Fine Arts.*

Three hours. Third Term. Elective for students who have passed in any course in Art.

A study of the more important facts and laws of artistic production. Text-book, special assigned topics, illustrated lectures.

[10. *Seminary in Classical Architecture.*]

Elective for Graduates. Not offered in 1904-05.

Critical study; Vitruvius read in the original Latin; discussion of the principles followed by the Greek and Roman architects, and of the influence of Vitruvius upon the Renaissance.

[11. *Seminary in Greek and Roman Sculpture.*]

Elective for Graduates. Not offered in 1904-05.

An archæological course based on Overbeck's *Schriftquellen.*

3. *Seminary Study of the Acropolis of Athens.*

Three hours. First Term. Elective for Graduates who read Greek and Latin.

Critical reading, in the Greek, of Pausanias's account of the Acropolis of Athens; lectures and illustrations.

[12. *Seminary in Renaissance Art.*]

Elective for Graduates. Not offered in 1904-05.

II. ASTRONOMY

Professors UPTON and SLOCUM

Courses 3, 4, 5, and 17, 18, 19, cover in part the same ground and may not both be taken by the same student, but either may be taken at the same time as the general course 1, 2, 6. On application special instruction for Graduates will be provided at the Ladd Observatory.

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[II. Astronomy, continued.]

1, 2, 6. *General Course.*

Three hours. Through the year. Elective for Juniors and Seniors who have passed in Mathematics 1, 2, 3.

Fundamental conceptions of the science, methods of professional study, and present state of our knowledge of the heavenly bodies. Young's *Manual of Astronomy*, lectures and abstracts upon assigned topics. Designed either for purposes of general culture or as a preparation for technical work.

Professor UPTON [this year Professor SLOCUM]

3, 4, 5. *Geodetic Astronomy.*

Three hours. Through the year. Required of Engineering students. Elective for Juniors and Seniors who have passed in Mathematics 1, 2, 3.

Application of astronomy to geodesy; use of the sextant, transit, and zenith telescope for determining time, latitude, longitude, and azimuth.

Professor SLOCUM

17, 18, 19. *Nautical Astronomy.*

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors, who have passed in Mathematics 1, 2, 3.

Principles of navigation, methods of determining the position of a ship at sea; use of sextant, compass, and chart for determining latitude, longitude, bearings, and courses.

Professor SLOCUM

[8, 9, 10. *Practical Astronomy.*]

Three hours. Through the year. Elective for Graduates, and for Undergraduates who have shown special aptitude in either 1, 2, 6, or 3, 4, 5. Not offered in 1904-05.

Advanced study of geodetic applications of astronomy; method of least squares. Doolittle's *Practical Astronomy*, with instrumental observations.

Professor UPTON

[14, 15, 16. *Mathematical Astronomy.*]

Three hours. Through the year. Elective for Graduates. Not offered in 1904-05.

Mathematical theory of planetary and cometary orbits; micrometer observations and calculation of orbits.

Professor UPTON

III. BIBLICAL LITERATURE AND HISTORY

Professor FOWLER and Mr. BRAUN

For conditions under which students may receive credit in the Newton Theological Institution for work done in this department, see a later page under Arrangements with other Institutions.

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[III. Biblical Literature and History, continued.]

HEBREW

1, 2, 3. *Elementary Hebrew.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

Mr. BRAUN

16, 17, 18. *Historical Hebrew.*

Three hours. Through the year. Elective for students who have completed Hebrew 1, 2, 3.

Reading of the books of Samuel and Kings with special attention to the acquisition of a vocabulary. Review of the grammar.

Mr. BRAUN

13, 14, 15. *Hebrew Seminary.*

Three hours. Through the year. Elective for Graduates and approved Undergraduates.

Subject for 1903-04: Legal Literature. Critical translation of the legal books of the Old Testament and study of the development of Israel's law codes. In succeeding years corresponding courses in the Prophetic, Psalm, and Wisdom literature of the Old Testament will be offered.

Professor FOWLER

19, 20. *Textual Criticism of the Old Testament.*

Three hours. Second and Third Terms. Elective for Graduates.

Professor FOWLER

ARAMAIC AND TALMUDIC

1, 2, 3. *Aramaic and Talmudic.*

Two hours. Through the year. Elective for Seniors and Graduates who have completed Hebrew 1, 2, 3.

First Term, grammar and reading of the Targum. Second Term, reading of all the Aramaic portions of the Old Testament. Third Term, selected Mishnaic treatises, Pirke Aboth. Study of the ethical teachings of the Rabbis.

Mr. BRAUN

ARABIC

1, 2, 3. *Elementary Arabic.*

Two hours. Through the year. Elective for Seniors and Graduates.

Professor FOWLER

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[III. Biblical Literature and History, continued.]

NEW TESTAMENT LANGUAGE AND LITERATURE

5, 1, 2. *Gospels and Epistles.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected separately.

Characteristics of Hellenistic Greek. Translation and investigation of date, authorship, and teachings. First Term, the Gospel and First Epistle of John. Second Term, the Gospel of Mark and the First Epistle of Peter. Third Term, the Gospels of Matthew and Luke.

Professor FOWLER

[7, 6, 3. *Acts and Pauline Epistles.*]

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not offered in 1904-05.

First Term, Acts. Second Term, Thessalonians and Galatians. Third Term, Corinthians and Romans.

Professor FOWLER

BIBLICAL LITERATURE AND HISTORY IN ENGLISH

Courses 1-6 below are designed not only as a foundation for special Biblical work, but also as a means of liberal culture. They form a two-years' consecutive course, giving a comprehensive view of the entire field of Biblical history and literature.

4, 5, 6. *Hebrew History and Literature.*

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Each term may be elected separately.

Professor FOWLER

[1, 2, 3. *Jewish and Early Christian History and Literature.*]

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Each term may be elected separately. Not offered in 1904-05.

Professor FOWLER

7, 8, 9. *Biblical Seminary in English.*

Three hours. Through the year. Elective for Graduates and approved Juniors and Seniors.

Subject for 1904-05: The Wisdom literature of Israel.

Professor FOWLER

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IV. BOTANY

Professor BAILEY and Mr. COLLINS

1, 2, 3. *General Morphology, Physiology and Ecology.*

Three hours. Six hours of attendance. Through the year. Elective for Undergraduates.

Comparative study of the seed, the seedling, and the mature plant; variations due to environment; experiments in plant physiology; classification, etc. Intended especially to train the student to observe and properly interpret the more obvious phenomena of plant life, as well as to furnish the necessary preparation for advanced work.

Professor BAILEY and Mr. COLLINS

[4, 5. *Histology and Physiology.*]

Three hours. Six hours of attendance. First and Second Terms. Elective for students who have passed in 1, 2, 3. Not offered in 1904-05.

Structure and physiology of vegetable cells, tissues, and organs; embryology; micro-technic.

Mr. COLLINS

[14. *Medical Botany.*]

Three hours. Five hours of attendance. Third Term. Elective for students who have passed in 5. Not offered in 1904-05.

The more important medical plants and their constituents; location, characteristics, and methods of extraction of the more important drugs.

Mr. COLLINS

NOTE: 4, 5, 14, to be offered in 1905-06, alternate with 7, 12, 9.

7. *Lower Cryptogams.*

Three hours. Six hours of attendance. First Term. Elective for students who have passed in 3.

Structure and development of types of the lower fungi and algæ; collection, classification, etc.

Mr. COLLINS

12. *Higher Cryptogams.*

Three hours. Six hours of attendance. Second Term. Elective for students who have passed in 7.

Structure, development, and classification of the hepaticas, mosses, ferns, horse-tails, and club-mosses.

Mr. COLLINS

9. *Mycology.*

Three hours. Six hours of attendance. Third Term. Elective for students who have passed the required examinations.

Structure, development, collection, preservation, and classification of edible, poisonous, and other fungi; plant diseases.

Mr. COLLINS

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V. CHEMISTRY

Professors APPLETON and BUCHER, Messrs. BABASINIAN, DUMMER and R. D. CADY

1, 2, 3. *Descriptive Chemistry.*

Three hours. Through the year. Elective for Undergraduates.

Non-metals; metals, their metallurgy, compounds, and practical applications; theoretical chemistry. Lectures with experiments; written exercises; individual laboratory work.

Professor BUCHER, Messrs. BABASINIAN and DUMMER

4. *Qualitative Analysis.*

Three hours. Six hours of attendance. First Term. Elective for Juniors.

Properties of the metallic elements, with their separation from certain of their compounds. Laboratory work; recitations in qualitative analysis and in chemical philosophy; exercises in stoichiometry.

Professor APPLETON and Mr. CADY

5. *Qualitative Analysis, continued.*

Three hours. Six hours of attendance. Second Term. Elective for Juniors.

The principal non-metals and the acids formed by them; methods of separation and recognition of acids and acid radicles.

Professor APPLETON and Mr. CADY

6. *Quantitative Analysis.*

Three hours. Six hours of attendance. Third Term. Elective for Juniors.

Quantitative precipitations and separations of the most important elements and compounds; the principles upon which quantitative apparatus is constructed; chemical philosophy and stoichiometry continued. Chiefly laboratory work.

Professor APPLETON and Mr. CADY

7, 8, 9. *Quantitative Analysis, advanced.*

Six hours. Twelve hours of attendance. Through the year. Elective for Seniors and Graduates who have passed in 1-6.

Assaying of metallic ores, analysis of agricultural materials, testing of chemicals used in textile establishments, etc.

Professor APPLETON and Mr. CADY

10, 11, 12. *Organic Chemistry.*

Six hours. Through the year. First and Second Term, three lectures a week and three laboratory periods a week. Elective for Juniors, Seniors, and Graduates.

Preparation and analysis of representative organic compounds; lectures, recitations, and laboratory work.

Professor BUCHER and Mr. BABASINIAN

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[V. Chemistry, continued.]

13. *Assaying.*

Six hours. Twelve hours of attendance. Third Term. Elective for Seniors and Graduates who have passed in 1-6.

Professor APPLETON and Mr. CADY

23. *Dyeing of Cotton, Wool, and Silk.*

Six hours. Twelve hours of attendance. Third Term. Elective for Seniors and Graduates.

The preparation and use of mordants, dye-stuffs, etc.

Professor APPLETON and Mr. CADY

31, 32, 33. *Industrial Chemistry.*

Through the year. Elective for Graduates. Each term may be elected separately.

Lectures and laboratory work. Professor APPLETON

[41, 42, 43. *Physical Chemistry.*]

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not offered in 1904-05.

Lectures and laboratory work. Professor BUCHER

51, 52. *Organic Chemistry, advanced course.*

Three hours. First and Second Terms. Elective for Graduates. Not to be offered in 1905-06.

Professor BUCHER

63. *Inorganic Chemistry, advanced course.*

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1905-06.

Professor BUCHER

71, 72, 73. *Organic Preparations, advanced course.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

Professor BUCHER

81, 82, 83. *Inorganic Preparations, advanced course.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

Professor BUCHER

91, 92, 93. *Research Work in Chemistry.*

Three hours. Through the year. Elective for Graduates.

Professor BUCHER

101, 102, 103. *Conference on Special Topics in Chemistry.*

One hour. Through the year. Elective for approved students.

Professor Bucher

111, 112, 113. *Conference on Special Topics in Chemistry.*

One hour. Through the year. Elective for approved students.

Professor APPLETON

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VI. CIVIL ENGINEERING

Professors HILL and BLANCHARD

All courses in this department are required of candidates for the degree of Bachelor of Science in Civil Engineering; all except 25, 26, 27 *are elective for other students.*

A thesis on a professional subject is required before graduation of all candidates for the degree of Bachelor of Science in Civil Engineering. The thesis must embody either a design or a review of an engineering plant, appliance, process, or structure, or the results of an experimental investigation.

1, 2, 3. *Surveying, elementary course.*

Three hours. Usually six hours of field work or drafting. Through the year. Elective for students who have passed in Mathematics 1, 2 and 3, and in Drawing 1 or 16.

Designed to give the theory and practice of plane surveying. Use of tape, compass, level, and transit. Adjustments of instruments. Lectures, recitations, field work, and drafting.

Professors HILL and BLANCHARD

4. *Topographical Drawing.*

Three hours. Six hours of drafting. Second Term. Elective for Juniors and Seniors who have passed in Drawing 1 or 16.

Pen and colored topography. Hill shading by different methods, contour drawing, topographic map making, conventional signs for structural materials.

Professor BLANCHARD

8, 8a. *Surveying, advanced course.*

One hour and three hours. Third Term. Elective for students who have passed in 1 and 2.

Topography and hydrography, city surveying. Methods as in 1, 2, 3. Use of stadia, plane table, sextant, and barometer. Precise base-line measurements with steel tape. The field work (8a) is done during the spring recess.

Professors HILL and BLANCHARD

5, 5a, 6, 7. *Railroad Engineering.*

Two, four (eight hours of field work), three and three hours. First, Second and Third Terms. Elective for students who have passed in 3 and 8.

Theory, location, construction, and economics. Methods as in 1, 2, 3. First Term, railroad curves and practical problems; actual location of a line about two miles long, map, and estimate of cost. Second Term, railroad track and track work, ties, ballast, rails, frogs, switches, etc.; maintenance of way department; methods of work. Third Term, earthwork and its cost; economics of location.

Professors HILL and BLANCHARD

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[VI. Civil Engineering, continued.]

10. *Hydraulic Engineering.*

Three hours. Second Term. Elective for Juniors and Seniors.

Consideration of water supply mainly from a sanitary standpoint. A general course designed to give the chemical and biological aspects of water supply without laboratory work. Lectures, recitations, and seminary work.

Professor HILL

11. *Hydraulic Engineering.*

Three hours. Third Term. Elective for students who have passed in Mathematics 13 and Mechanics 4.

Supplements the courses in Mechanics 7 and 8, which give the theoretical treatment of the subject. Consideration of water supply mainly from an engineering standpoint. Irrigation, pumps, and pumping machinery. Construction of dams and reservoirs. Lectures, recitations, and seminary work.

Professor HILL

17. *Sanitary Engineering.*

Three hours. Third Term. Elective for students who have passed in Mathematics 13, Mechanics 4, and Drawing 6.

Sewerage and house drainage. Chiefly theory of sewerage, with occasional problems in design. Treatment and disposal of sewage, stream pollution, appliances used in construction and maintenance amount and velocity of flow; house drainage and its appliances; garbage collection and disposal. Lectures, recitations, and seminary work.

Professor HILL

NOTE: Courses 10, 11 and 17 cover the general subject of sanitation.

16. *Geodesy.*

Three hours. One hour of recitation and five hours of computation. Third Term. Elective for students who have passed in 3 and 8 and Astronomy 4.

Problems in geodetic surveying. Only sufficient theory is given in this course for a proper understanding of the formulæ used in geodetic computations. Lectures and computations.

Professor HILL

18. *Roads and Pavements.*

Three hours. Third Term. Elective for Sophomores, Juniors, and Seniors.

Economics and location of country roads. Surveys, grades, drainage, and foundations. Construction of roads of earth, gravel, and broken stone. Economics and design of street pavements of asphalt, brick, cobble-stone, stone-block, and wood-block. Methods of testing road materials. Roads and pavements in foreign countries.

Professor BLANCHARD

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[VI. Civil Engineering, continued.]

[19, 20, 21. *Laboratory Investigations.*]

Three hours. Through the year. Elective for students who have passed in Mathematics 13, Mechanics 4, and Drawing 6. Not offered in 1904-05.

Use and adjustment of instruments, testing materials, stereotomy.

Professor HILL

NOTE: For 1904-05 students in Civil Engineering will take Mechanical Engineering 40 and 41 in place of Civil Engineering 19 and 20.

25, 26, 27. *Lettering.*

One hour. Two hours of drafting. Through the year.

Offers sufficient practice in a few simple forms of letters to enable the students to do acceptable work in the drafting room. Professor HILL

28. *Simple Framed Structures.*

Three hours. First Term. Elective for students who have passed in Mathematics 13, Mechanics 6, and Drawing 1 or 16.

The standard forms of simple roof trusses. Calculation of stresses due to dead, snow, and wind loads by analytical methods. Calculation of stresses in Pratt, Howe, Warren, and parabolic trusses due to dead, wind, uniform live, excess panel live, and locomotive wheel loads, by analytical methods. Miscellaneous trusses, skew bridges, influence lines, cranes, trussed bents, and towers. Lectures, recitations, and seminary work. Professor BLANCHARD

29. *Structural Details.*

Three hours. First Term. Elective for students who have passed in Mathematics 13, Mechanics 6, and Drawing 1 or 16.

Riveted joints, roof details, tension members, combined direct and bending stresses, secondary stresses, columns under direct and eccentric loading. Details of wooden structures, plate girder, parabolic highway, pin-connected, and riveted Pratt truss railroad bridges. Construction of viaducts and elevated railroads. Steel mill-building and high building construction. Comparison of standard structural specifications. Lectures and computations. Professor BLANCHARD

30. *Roof Design and Graphic Statics.*

Three hours. Six hours of drafting. First Term. Elective for students who are taking 28 and 29.

Graphic determination of center of gravity and moment of inertia of combinations of structural shapes. Determination of stresses in simple roof trusses by graphical methods. Moment and shear diagrams for the determination of stresses in plate girder bridges, Pratt trusses, and bridge trusses with inclined chords. Complete design with shop drawings of a fifty to seventy foot roof truss. Revision and discussion of checked drawings. Drawing and computations. Inspection trips.

Professor BLANCHARD

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[VI. Civil Engineering, continued.]

31, 33. *Bridge Design.*

Four and three hours. Eight and six hours of drafting. Second and Third Terms. Elective for students who have passed in 28, 29 and 30.

Detail design, with shop drawings, of a heavy plate girder railroad bridge. General design and shop drawings of a two hundred foot parabolic highway bridge. General class design of a wooden trestle. Lectures on American and English shop practice, the esthetic design of bridges, design of stand pipes and elevated tanks, and American methods of erection of bridges and structures. Drawing, computations, field excursions, and seminary work or lectures.

Professor BLANCHARD

32. *Higher Framed Structures.*

Two hours. Second Term. Elective for students who have passed in 28.

Continuous bridges. Theorem of three moments, swing bridges, calculation of stresses in continuous and non-continuous centre bearing swing bridges, draw span machinery, cantilever bridges, and suspension bridges. General analysis of three-hinged, two-hinged, and fixed-end arches. Lectures, recitations, and seminary work.

Professor BLANCHARD

34. *Mineralogy.*

Three hours. Third Term.

Crystallography. Physical mineralogy; determination of minerals by physical properties. Geographical distribution of building-stones in the United States. Economic effect of minerals in building-stones. Weathering of building-stones. Methods of protection and preservation. Lectures and inspection of minerals in class.

Professor BLANCHARD

35. *Municipal Improvements.*

Three hours. First Term. Elective for Juniors and Seniors. Offered only if ten or more elect the course.

Economic and social aspects of sewerage, water works, pavements, etc.

Professor HILL

36, 37. *Masonry Structures.*

One hour. Three hours. One hour of recitation and four hours of drafting. Second Term. Elective for students who have passed in Mechanics 6 and Drawing 6.

Static and elastic theory of the masonry arch. Design of a stone arch. Theory and construction of concrete-steel structures. Determination of the forms and dimensions of stones in a plateband arch. Theory and design of retaining walls, and of earth and high masonry dams.

Professor BLANCHARD

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[VI. Civil Engineering, continued.]

38. *Foundations.*

Two hours. Third Term. Elective for students who have passed in Mechanics 6.

Soundings and borings, foundation-beds, deposition of concrete under water, timber foundations, coffer dams, open caissons, Cushing cylinder piers, pile formulæ, driving and foundations, pneumatic caissons of wood and steel, open dredging, Poetsch freezing process, foundations in quicksand, foundations for high buildings, theory and design of piers for deep foundations.

Professor BLANCHARD

39, 40. *Engineering Jurisprudence.*

One hour. Second and Third Terms. Elective for Seniors who are studying Mechanical and Electrical Engineering.

Essential elements of a contract, the parties to a contract, considerations, bids and bidders, work for private parties and public work. Employment of engineers, liability of engineer as a professional man; when his functions are judicial; when a public officer. Real property, water rights, ownership, rights of way, boundaries, incorporeal rights, and franchises. Engineering specifications and accompanying documents.

Professor BLANCHARD

41. *Rock Excavation and Tunnelling.*

One hour. Second Term. Elective for students who have passed in 7 and in Mechanics 6.

Various ways of excavating rock and the principal methods of tunnelling.

Professor HILL

VII. COMPARATIVE ANATOMY

Professors MEAD, GORHAM, and WILLIAMS, Dr. SULLIVAN, Dr. FULTON, Dr. PERKINS, and Dr. PEGRAM

15, 1, 35. *Introductory Course.*

Three hours. Six hours of attendance. Through the year. Elective for Undergraduates.

Designed for purposes of general culture as well as for an introduction to further work in this department. Laboratory work in gross and minute anatomy and physiology, introductory to scientific methods, the structure and functions of animals, and the general principles of biology.

Professor GORHAM

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[VII. Comparative Anatomy, continued.]

3, 4, 34. *Comparative Anatomy of Vertebrates.*

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors, who have passed in 35.

Critical and comparative study of the vertebrate organs, with special reference to the structure of man. In addition to the regular lectures, occasional lectures by physicians and others who have given attention to certain special subjects. A limited number of students are permitted to attend the clinics at the Rhode Island Hospital.

Professor WILLIAMS

9. *Bacteriology.*

Three hours. Six hours of attendance. First Term. Elective for Juniors and Seniors.

Preparation and microscopic study of bacteria; the preparation of culture media, isolation, systematic study and determination of unknown species; qualitative and quantitative biological examination of water, milk, air, and soil; methods of determining pathogenic properties of bacteria; methods of sterilization and disinfection; special work on pathogenic forms.

Professor GORHAM

10. *Histology.*

Three hours. Six hours of attendance. Second Term. Elective for Juniors and Seniors who have passed in 35.

Microscopic anatomy of tissues.

Professor WILLIAMS

38. *Advanced Histology.*

Three hours. Six hours of attendance. Third Term. Elective for Juniors and Seniors who have passed in 10.

Dr. FULTON

2. *Comparative Anatomy of Invertebrates.*

Three hours. Six hours of attendance. Third Term. Elective for students who have passed in 35.

Laboratory course in the comparative anatomy of the lower animals.

Professor WILLIAMS

18,19. *Chemical Physiology.*

Three hours. Six hours of attendance. First and Second Terms. Elective for Juniors and Seniors who have passed in Chemistry 2.

The chemistry of the proteids, carbohydrates and fats; of salivary, gastric, and pancreatic digestion; of the blood, bile, and urine; the analysis of milk; toxicology.

Dr. SULLIVAN

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[VII. Comparative Anatomy, continued.]

20, 21. *Physical Physiology.*

Three hours. Six hours of attendance. Third and First Terms. Elective for Juniors and Seniors who have passed in 19.

The physiology of muscle and nerve; the physics and physiology of the circulatory, respiratory, and alimentary systems; the causes and theories of sleep; the physiology of the special senses.

Dr. SULLIVAN

16, 17, 30. *Anatomy of the Nervous System.*

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have passed in 35. Not to be offered in 1905-06. Alternates with 31, 32, 33.

The gross anatomy and the microscopic structure of the nervous system in vertebrates, especially in man; phylogeny, embryology, and physiology of the nervous system, and special nerve methods in micro-technic.

Professor MEAD

[31, 32, 33. *Comparative Embryology.*]

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have passed in 35. Not offered in 1904-05. Alternates with 16, 17, 30.

Laboratory work. Designed to give a general idea of the principles of embryological development and of heredity, illustrating the fertilization and cleavage of the egg, metamorphosis, and organ formation.

Professor MEAD

25. *Biological Theories and Biological Problems.*

Weekly seminary. Through the year. Elective for Graduates.

Professor MEAD

27. *Bacteriology, advanced course.*

Through the year. Elective for Graduates. Laboratory work and seminary.

Professor GORHAM

28. *Physiology, advanced course.*

Through the year. Elective for Graduates who have sufficient knowledge of chemistry and physiology. Prescribed reading and seminary.

Dr. SULLIVAN

29. *Human Anatomy.*

Through the year. Elective for Graduates. Laboratory instruction.

A course in practical dissection. Students will also have an opportunity to attend certain operations at the hospital and to be present at autopsies.

Dr. PERKINS and Dr. PEGRAM

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VIII. DRAWING

Professor RANDALL, Messrs. BROOKS and CLOUGH.

1. *Elementary Mechanical Drawing.*

Four hours. Two hours of recitation and six hours of drawing. First Term. Required of Freshmen who are candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering, or Electrical Engineering.

Nature, care, and use of drafting instruments; plane problem construction; theory of orthographic projection; discussion, proof, and graphic solution of problems in descriptive geometry relating to the point, line, and plane.

Professor RANDALL, Messrs. BROOKS and CLOUGH

5. *Descriptive Geometry.*

Four hours. Three hours of recitation and three hours of drawing. Second Term. Required of Freshmen who are candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering, or Electrical Engineering.

Line and surface generation and classification; discussion, proof, and graphic solution of problems in surface tangency; intersections and developments; presentation of principles involved in the solution of engineering problems.

Professor RANDALL

6. *Descriptive Geometry.*

Four hours. Three hours of recitation and three hours of drawing. Third Term. Required of Freshmen who are candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering, or Electrical Engineering.

Intersections and developments; application of the principles of descriptive geometry in isometric drawing, in shades and shadows and perspective, in machine drawing, and in practical engineering problems.

Professor RANDALL

16. *Elementary Mechanical Drawing.*

Three hours. Six hours of drawing. First Term. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy, and for Sophomores, Juniors, and Seniors.

Nature, care, and use of drafting instruments; plane problem construction; elements of orthographic and isometric projection.

Professor RANDALL, Messrs. BROOKS and CLOUGH

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[VIII. Drawing, continued.]

17. *Descriptive Geometry.*

Three hours. Two hours of recitation and two hours of drawing. Second Term. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy, and for Sophomores, Juniors, and Seniors who have passed in 1 or 16.

Theory of orthographic projection; discussion, proof, and graphic solution of problems relating to the point, the straight line, and the plane. A continuation of 16.

Professor RANDALL

18. *Descriptive Geometry.*

Three hours. Two hours of recitation and two hours of drawing. Third Term. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy, and for Sophomores, Juniors, and Seniors who have passed in 17.

Problems in surface tangency; intersections and developments, including intersection of surfaces by planes, development of single curved surfaces, intersections of single and of double curved surfaces.

Professor RANDALL

7. *Shades and Shadows and Perspective.*

Three hours. Two hours of recitation and two hours of drawing. First Term. Elective for students who have passed in 6 or 18.

Professor RANDALL

14. *Shades and Shadows and Perspective, advanced course.*

Three hours. Six hours of drawing. May be taken in any term. Elective for students who have passed in 7.

Application of the principles of shades and shadows and perspective in architectural drawing.

Professor RANDALL

8. *Elementary Machine Drawing.*

Three hours. Six hours of drawing. May be taken in any term. Elective for students who have passed in 5, 6, or 17, 18.

Conventional methods of representing the parts of machines; explanation of machines in detail; sketches, detail and assembly drawings.

Messrs. BROOKS and CLOUGH

10. *Machine Drawing.*

Three hours. One hour of recitation and eight hours of drawing. First Term. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in 5, 6, or 17, 18.

Study and representation of machine parts; principles of elementary machine design.

Messrs. BROOKS and CLOUGH

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[VIII. Drawing, continued.]

11. *Machine Drawing.*

Three hours. One hour of recitation and eight hours of drawing. Second Term. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in 8 or 10.

Sketches, detail, and assembly drawings of machines; practice in reading drawings.

Messrs. BROOKS and CLOUGH

12. *Elements of Machine Design.*

Three hours. One hour of recitation and five hours of drawing. Third Term. Elective for students who have passed in 10, 11.

Design of simple mechanisms.

Mr. BROOKS

15. *Constructive Geometry.*

Three hours. Six hours of drawing. May be taken in any term. Elective for students who have passed in 1 or 16.

Derivation, graphical test, and proof of original methods of solving plane and solid geometrical problems. Mathematical treatment.

Professor RANDALL, Messrs. BROOKS and CLOUGH

19. *Mechanical Drawing, practical.*

Three hours. Six hours of drawing. Second Term. Elective for students who have passed in 16.

For students desiring to continue their course in drawing without taking the theoretical work of descriptive geometry. Intersections and developments; third quadrant projection; sketching and dimensioning; conventional methods of representing machine parts.

Mr. BROOKS

20. *Mechanical Drawing, practical, continued.*

Three hours. Six hours of drawing. Third Term. Elective for students who have passed in 19.

Sketching, detailing, and assembling; exercises in reading drawings; architectural drawing, including the drawing of plans, elevations, and the details of building construction.

Mr. BROOKS

21, 22. *Architectural Drawing.*

Three hours. Six hours of drawing. Second and Third Terms. Elective for Sophomores, Juniors, and Seniors who have passed in Drawing 7. Given at the Rhode Island School of Design.

Principles of architectural design and composition. Working drawings and ordinary office practice.

Professor HOMER of the Rhode Island School of Design

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[VIII. Drawing, continued.]

2, 3, 4. *Freehand Drawing.*

One hour. Two hours of drawing. Through the year. Elective for all students. Given at the Rhode Island School of Design.

Training of hand and eye by progressive study of models of machine parts, casts of ornamental forms, and still-life objects.

Mr. BLANCHARD

IX. ENGLISH LITERATURE AND LANGUAGE

Professors BRONSON, SEARS, POTTER, DAMON, BENEDICT, CROSBY, and HUNTINGTON, Messrs. LATHAM, HASTINGS, PHILLIPS, and GROSE

No student who has not credit for entrance English will be admitted to any English course.

1, 2, 3. *Rhetoric and Composition.*

Three hours. Through the year. Required of all Freshmen.

Professors DAMON and BENEDICT, Messrs. LATHAM and HASTINGS, assisted by Messrs. PHILLIPS and GROSE

22, 23, 24. *English Composition, second course.*

Three hours. Through the year. Two hours of class-room work and one hour of consultation. Elective for Sophomores who have credit for 1, 2, 3.

Lectures, recitations, fortnightly themes, and other written exercises. Designed for Sophomores who wish to supplement the practice given in 1, 2, 3. Main emphasis laid on the acquirement of a clear and accurate style.

Professor BENEDICT and Mr. LATHAM

4, 5, 6. *Argumentative Composition.*

One hour. Through the year. Required of all candidates for the degree of Bachelor of Arts or Bachelor of Philosophy in the class of 1905 who have not already received credit for the course. Elective for Juniors.

Mr. LATHAM, assisted by Mr. PHILLIPS

28, 29, 30. *Argumentative Composition.*

Three hours. Through the year. Elective for Juniors and Seniors who have credit for 1, 2, 3. Third hour devoted, at the option of the instructor, to consultation.

Study of the principles and forms of argumentative composition. Lectures, written exercises, briefs, forensics, and less formal arguments. Intended to furnish a more thorough training than English 4, 5, 6, especially in persuasion.

Professor HUNTINGTON, assisted by Messrs. LATHAM and PHILLIPS

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[IX. English Literature and Language, continued.]

11, 12. *Debate.*

Three hours. Second and Third Terms. Elective for a limited number of Juniors and Seniors who have credit for one or more terms of either 4, 5, 6 or 28, 29, 30. With the consent of the instructor, the course may be repeated.

Professor HUNTINGTON, with the co-operation of the Professors of Political Economy, Social and Political Science, History, and Public Speaking.

NOTE: Seniors may substitute 11 for 5, 6.

7, 8, 9. *English Composition, advanced course.*

Three hours. Through the year. Elective for Juniors and Seniors, and for Sophomores who have passed with distinction in 1, 2, 3. With the consent of the instructor, the course may be repeated.

Professor DAMON, assisted by Mr. GROSE

13, 14, 15. *Public Speaking.*

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors.

Principles of voice culture, vocal interpretation of literature, extempore speaking.

Professor CROSBY

[76, 77, 78. *Public Speaking, advanced course.*]

One hour. Through the year. Elective for a limited number of Seniors. Not offered in 1904-05.

Professor CROSBY

16, 17, 18. *English Literature, introductory course.*

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors.

An outline course in the history of English literature, with reading and study of the greater writers.

Professor BRONSON

[19, 20, 21. *Old English.*]

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not offered in 1904-05.

The essentials of Anglo-Saxon grammar; prose selections; Béowulf.

Professor POTTER

25, 26, 27. *Chaucer.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1905-06.

Work at first mainly linguistic, followed by reading and study of Chaucer as a poet.

Professor POTTER

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[IX. English Literature and Language, continued.]

NOTE: Advanced courses in Old English, Middle English, and Historical Grammar will be offered by Professor Potter according to the needs of qualified students.

31, 32, 33. *English Literature, exclusive of the Drama, from* 1400 *to* 1600.

Three hours. Through the year. Elective for students who have credit for one course in English literature. Not to be offered in 1905-06.

Mediæval literary forms and the transition to the modern period: romance, ballad, allegory, satire, Elizabethan novels and lyrics.

Professor BENEDICT

[37, 38, 39. *History of the Drama in England.*]

Three hours. Through the year. Elective for students who have credit for one course in English literature. Not offered in 1904-05.

The drama as a literary type, and its history in England.

Professor POTTER

40, 41, 42. *Shakspere, linguistic course.*

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Not to be offered in 1905-06.

Careful study of a few plays, with special attention to exact interpretation.

Professor POTTER

67, 68, 69. *Shakspere, literary course.*

Three hours. Through the year. Elective for Juniors and Seniors.

Shakspere as dramatist and poet. Reading of all the plays.

Professor POTTER

[34, 35, 36. *English Literature, exclusive of the Drama, from* 1600 *to* 1660.]

Three hours. Through the year. Elective for students who have credit for one course in English literature. Not offered in 1904-05.

The course centres in Milton.

Professor BRONSON

46, 47, 48. *English Literature from* 1660 *to* 1798.

Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for students who have credit for one course in English literature. Not to be offered in 1905-06.

The Restoration drama, the classical school, development of the essay and the novel, the beginnings of romanticism.

Professor BRONSON

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[IX. English Literature and Language, continued.]

[49, 50, 51. *English Literature from* 1798 *to* 1832.]

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Not offered in 1904-05.

A survey course. Poetry and prose of the romantic period.

Professor BENEDICT

43, 44, 45. *English Prose of the Nineteenth Century.*

Three hours. Through the year. Two meetings a week, and a third meeting at the pleasure of the instructor. Elective for Sophomores, Juniors, and Seniors.

Novels, essays, and miscellaneous prose writings. The influence of the social and intellectual tendencies of the period upon style and substance.

Professor DAMON

[52, 53, 54. *English Literature from* 1832 *to* 1892.]

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Not offered in 1904-05.

The greater novelists, essayists, and poets of the period.

Professor POTTER

55, 56, 57. *Victorian Poets.*

Three hours. Through the year. Elective for students who have credit for one course in English literature. Not to be offered in 1905-06.

A detailed study of Tennyson, Browning, Arnold, Rossetti, and Swinburne.

Professor CROSBY

61, 62, 63. *American Literature.*

Three hours. Through the year. Elective for students who have credit for one course in English literature.

American literature from the beginning in its relation to American life and to English literature.

Professor SEARS

64, 65, 66. *Seminary in English Literature.*

Three hours. Through the year. Elective for Graduates, and for a limited number of Seniors who have passed with credit in two or more courses in English literature.

Subject in 1904-05: The history of literary criticism in England.

Professor BRONSON

73. *Methods of Teaching English.*

One hour. First Term. Elective for Seniors and Graduates who intend to teach English. Not counting towards a degree.

Professors BRONSON and DAMON

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X. THE GERMANIC LANGUAGES AND LITERATURES

Professors CROWELL and JONAS, Messrs. NORRIS, STEWART, and ASHLEY

GERMAN

1, 2, 3. *Introductory Course.*

Three hours. Through the year. Required of all students not presenting German for admission.

Reading, grammar, composition, dictation, sight reading. Selections in prose and poetry from standard authors.

Messrs. NORRIS and ASHLEY

24, 25, 26. *Intermediate Course.*

Three hours. Through the year. Required of all Freshmen presenting elementary German for admission.

Selected works of classical and modern authors. Study of syntax based upon the text.

Messrs. NORRIS and STEWART

4, 6, 8. *Drama of the Classic Period.*

Three hours. Through the year. Elective for students who have passed in 1, 2, 3.

Lessing, Schiller, Goethe. Two dramas of each author. Primarily a literary course, but includes some study of the language.

Professor JONAS and Mr. STEWART

5, 7, 9. *Modern Prose.*

Three hours. Through the year. Elective for students who have passed in 1, 2, 3.

Representative pieces by the best nineteenth century authors; history, biography, legend, and fiction. Valuable for students using German sources in other subjects. Sight reading a prominent feature.

Professor JONAS

34, 35, 36. *Advanced Course in Standard Authors.*

Three hours. Through the year. Elective for students who have passed in 24, 25, 26, and for those presenting advanced German for admission.

Selections from the dramas of Lessing, Schiller, and Goethe. Schiller's *Geschichte des Dreissigjährigen Kriegs*, Goethe's *Dichtung und Wahrheit*, etc.

Mr. STEWART

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[X. The Germanic Languages and Literatures, continued.]

40, 41, 42. *Composition.*

One hour. Through the year. Elective for students pursuing the regular courses of the second or third year in German, and for those who have passed in 48.

Most appropriately taken in connection with courses 4, 6, 8 or 5, 7, 9.

Mr. STEWART

[43, 44, 45. *Advanced Composition.*]

One hour. Through the year. Elective for students who have passed in 42, and who are pursuing or have completed a third year course. Not offered in 1904-05.

Professor JONAS

46, 47, 48. *German Masterpieces I.*

Three hours. Through the year. Elective for students who have passed in 8 or 36. Not to be offered in 1905-06.

Goethe's *Faust*, Parts I. and II., with a glance at recent dramas of kindred interest. With 49, 50, 51 presents those productions of the great German writers which deal with important psychological and moral problems.

Professor CROWELL [this year Professor JONAS]

[49, 50, 51. *German Masterpieces II.*]

Three hours. Through the year. Elective for students who have passed in 8 or 36. Not offered in 1904-05. To be offered in 1905-06.

Wolfram von Eschenbach's *Parzival*, Goethe's *Egmont*, Schiller's *Wallenstein*, Lessing's *Nathan der Weise*.

Professor CROWELL

16, 17, 18. *German Literature.*

Three hours. Through the year. Elective for students who have passed in 36, 48, or 51.

A three years' course in literature covering the principal literary movements in Germany from the earliest times to the present. Lectures, reports on assigned topics, extended reading. Subject for 1904-05: A careful study of Herder, Lessing, Schiller, and Goethe.

Mr. STEWART

[10, 11, 12. *Middle High German.*]

Three hours. Through the year. Elective for students who have passed in 18, 48, or 51. Not offered in 1904-05. To be offered in 1905-06.

Paul's *Mittelhochdeutsche Grammatik. Das Nibelungenlied*, Hartmann von Aue's *Der arme Heinrich*, Wolfram von Eschenbach's *Parzival*, lyrics of Walther von der Vogelweide.

Professor CROWELL

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[X. The Germanic Languages and Literatures, continued.]

[28, 29, 30. *Germanic Mythology.*]

One hour. Through the year. Elective for Juniors, Seniors, and Graduates. Not offered in 1904-05. To be offered in 1905-06.

Ancient Germanic beliefs and superstitions as to the soul, spirits, demons, and gods. Discussions based on E. Mogk's *Germanische Mythologie.*

Professor CROWELL

31, 32, 33. *Germanic Philology.*

One hour. Through the year. Elective for Graduates.

Discussion based on Paul's *Grundriss der Germanischen Philologie.*

Professor CROWELL [this year Professor JONAS]

[52, 53, 54. *German Poetry.*]

Three hours. Through the year. Elective for students who have passed in 48 or 51. Not offered in 1904-05.

Comparative study of representative poems. First Term, epics; Second Term, ballads; Third Term, lyrics.

Professor JONAS

[61, 62, 63. *Research in German Literature.*]

Three hours. Six hours of attendance in the Seminary Library. Through the year. Elective for students who have passed in 18, 48, or 51. Not offered in 1904-05.

Investigation of problems specially assigned; themes and reports.

Professor CROWELL

OLD NORSE

[1, 2, 3. *Old Norse.*]

Two hours. Through the year. Elective for Graduates. Not offered in 1904-05. To be offered in 1905-06.

Holthausen's *Altisländisches Elementarbuch*, Wilken's *Prosaische Edda*, *Die Lieder der Edda*, edited by Sijmons and Gering. Students electing Old Norse should also take Germanic Mythology.

Professor CROWELL

GOTHIC

1, 2, 3. *Gothic.*

Two hours. Through the year. Elective for Graduates. Not to be offered in 1905-06.

Discussion of East Germanic languages and of Gothic etymology.

Reading of extracts in Streitberg's *Gotisches Elementarbuch*, or Braune's *Gotische Grammatik.* Students electing Gothic should also take Germanic Philology.

Professor CROWELL [this year Professor JONAS]

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XI. GREEK LITERATURE AND HISTORY

Professors MANATT and ALLINSON

A, B, C. *Elementary Course.*

Three hours. Through the year.

For those students who have not taken Greek before entering college. Aims to cover as much as possible of the entrance requirements in Greek. Supplemented by private study in the summer, it should enable the student to take up courses 1 and 2 in the following year. He may then by private study complete the entrance requirement in Homer in time to take up course 3 in the spring.

Professors MANATT and ALLINSON

1. *Lysias.*

Three hours. First Term. Elective for students who presented elementary and advanced Greek for admission, or who have taken Greek A, B, C and the additional work indicated above.

Select orations and practice in sight reading.

Professors MANATT and ALLINSON

2. *Plato.*

Three hours. Second Term. Elective for students who have taken Greek 1 or its equivalent.

Plato's *Apology* and *Crito*, with other selections for sight reading.

Professors MANATT and ALLINSON

3. *Homer.*

Three hours. Third Term. Elective for students who have taken Greek 1 and 2 or equivalents.

The *Odyssey*, four books; rapid reading of other books; lectures on the life of the Heroic Age as revealed in the poems and illustrated by recent archæological research.

Professors MANATT and ALLINSON

46. *Greek Life.*

Three hours. First Term. Elective for Freshmen and Sophomores.

The private and public life of the Greeks studied in the light of their literature and monuments. Syllabus, lectures, and prescribed reading, with frequent reports, written tests, and a thesis. No knowledge of Greek or Latin required. The course is continued in the Second and Third Terms as Roman Literature and History 46, 47. The three terms together constitute the course called the History of Greek and Roman Life and Institutions.

Professor MANATT

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[XI. Greek Literature and History, continued]

[47. *Greek Literature.*]

Three hours. First Term. Elective for Freshmen and Sophomores. Not offered in 1904-05.

A brief history of the literature of the Greeks from Homer to Theocritus, together with study of the masterpieces in the best English translations. No knowledge of Greek or Latin required. This course is continued in the Second and Third Terms as Latin 48, Indo-European Philology 1. The three terms together constitute the course in Greek and Roman Literature, and the History of Language. Alternates with Greek 46, Latin 46, 47.

Professor MANATT

4. *Greek Lyric Poets.*

Three hours. First Term. Elective for Sophomores.

The chief remains of Greek lyric poetry from Alkman to Timotheos (not including Pindar) will be read.

Professor MANATT

6. *Dramatic Poets.*

Three hours. Second Term. Elective for Sophomores.

Lectures on the Greek drama. The *Prometheus* of Æschylus, The *Clouds* of Aristophanes.

Professor ALLINSON

5. *Lucian.*

Three hours. Third Term. Elective for Sophomores.

Professor ALLINSON

[11. *Demosthenes.*]

Three hours. First Term. Elective for Graduates. Not offered in 1904-05.

Private speeches, selected to illustrate the workings of Athenian institutions.

Professor MANATT

[12. *Demosthenes.*]

Three hours. Second Term. Elective for Juniors and Seniors. Not offered in 1904-05.

Speeches on the Crown; study of the Macedonian period and of Athenian political life.

Professor MANATT

16. *Plato and Æschylus.*

Three hours. First Term. Elective for Juniors and Seniors.

Republic, book X; selections from books I-IX; *Agamemnon.*

Professor ALLINSON

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[XI. Greek Literature and History, continued.]

[45. *The Drama.*]

Three hours. First Term. Elective for Juniors and Seniors. Not offered in 1904-05.

The *Medea* of Euripides and the *Frogs* of Aristophanes, with rapid reading of one play of Æschylus for literary criticism.

Professor ALLINSON

[18. *Pindar and Bacchylides.*]

Three hours. Third Term. Elective for Juniors and Seniors. Not offered in 1904-05.

Professor MANATT

23, 24. *Modern Greek.*

One hour. Second and Third Terms. Elective for Sophomores, Juniors, and Seniors.

Professor MANATT

[28. *Lucian.*]

Three hours. First Term. Elective for Juniors and Seniors. Not offered in 1904-05.

Professor ALLINSON

43, 47. *Greek Composition.*

One hour. Second and Third Terms. Elective for Sophomores, Juniors, and Seniors.

Professor ALLINSON

25, 26. *Herodotus and Thucydides.*

Three hours. Second and Third Terms. Elective for Juniors and Seniors.

Professor MANATT

[32. *Attic Orators.*]

Two hours. First Term. Elective for Graduates and approved Seniors. Not offered in 1904-05.

Isæus, Greek historical inscriptions.

Professor MANATT

34, 35, 36. *Greek Seminary.*

One two-hour session weekly. Through the year. Elective for Graduates and approved Seniors.

First Term, Theocritus, Professor MANATT; Second Term, Euripides or Plato, Professor ALLINSON; Third Term, Bacchylides and Herondas, Professor MANATT; or Seminary in Comparative Philology, Professor ALLINSON. See Indo-European Philology 7.

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[XI. Greek Literature and History, continued.]

[41, 42. *Homer and Mycenæan Archæology.*]

Two hours. First and Second Terms. Elective for Graduates and approved Seniors. Not offered in 1904-05.

Professor MANATT

The Harkness Classical Club meets once a month for the reading of papers and for discussion. Arrangements also are made from time to time for public addresses. The membership is open to Graduates and Undergraduates.

XII. HISTORY

Professors MACDONALD and MUNRO

The elective courses in History are regularly open only to those who have passed in courses 1 *and* 2; *but, by special permission of the instructor, elective courses may be taken by Juniors and Seniors who are taking at the same time courses* 1 *and* 2. *The only elective course in History open to Sophomores is course* 40.

EUROPEAN HISTORY

1, 2. *Mediæval and Modern History of Europe.*

Three hours. First and Second Terms. Required in either the Sophomore or the Junior year of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy.

A general survey of the history of western Europe from the time of the barbarian invasions to the Napoleonic wars. Work based upon a narrative text-book, supplemented by lectures, frequent written tests, and written reports and abstracts on assigned reading and topics for special investigation.

Professor MACDONALD

18. *Spanish History.*

Three hours. First Term. Elective for Juniors, Seniors, and Graduates.

Development of Spanish institutions, political and social; rise and greatness of Spain as a European power; its colonial system; its position with reference to the Reformation and the subsequent religious wars.

Professor MUNRO

15. *Islam and the Crusades.*

Three hours. Second Term. Elective for Juniors, Seniors, and Graduates.

Social and political conditions in Europe and the East at the beginning of the Crusades; organization and internal condition of Islam; effects of the Crusades on the thought, life, and political development of Europe.

Professor MUNRO

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[XII. History, continued.]

11. *Period of the Renaissance.*

Three hours. First Term. Elective for Juniors, Seniors, and Graduates.

Preparation for the Renaissance in the intellectual and social life of Europe; spread of the revival, connection between the Renaissance and the Reformation; artistic and literary aspects of the movement.

Professor MUNRO

3. *Period of the Reformation.*

Three hours. Second Term. Elective for Juniors, Seniors, and Graduates.

Early movements of dissent from the Roman church; Protestant revolt in Germany, Switzerland, France, and England; political and social aspects of the Reformation; religious wars; the effects on religious belief and church organization.

Professor MUNRO

16. *The French Revolution.*

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates, and for Sophomores who have taken courses 1 and 2.

Rise and progress of the Revolution in France, political and social conditions in Europe 1789-1815; permanent results of the Revolution, particularly its effect on political thought and practice.

Professor MUNRO

40 *European History since* 1815.

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates, and for Sophomores who have taken courses 1 and 2.

A continuation of 2, but more detailed in treatment; political development of the more important states and their diplomatic relations; revolutions of 1830 and 1848; free trade movement in England; achievement of Italian unity; founding of the German Empire; Franco-Prussian war; the Eastern question, etc.

Professor MUNRO

[19, 20, 21. *English Constitutional and Political History to* 1689.]

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not offered in 1904-05. To be offered in 1905-06.

Formation of the English constitution; establishment and growth of the church; relations with Scotland and Ireland; the Reformation; the Puritan Revolution.

Professor MUNRO

22, 23, 24. *English Constitutional and Political History since* 1689.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

Foreign relations, development of party government and the cabinet system; social and political changes of the nineteenth century.

Professor MUNRO

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[XII. History, continued.]

34, 35, 36. *Seminary in European History.*

Three hours. One hour of class-room attendance. Through the year. Elective for Graduates and approved Seniors.

Discussion of assigned subjects, reports of reading and investigation, and similar exercises.

Professor MUNRO

AMERICAN HISTORY

25, 26, 27. *American History to* 1787.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1905-06.

American colonial history as illustrative of the colonial policies of European states in the 16th-18th centuries; development of colonial and local forms of government; intercolonial wars; colonial slavery; the Revolution. Lectures, supplemented by parallel readings and detailed study of the texts of representative documents.

Professor MACDONALD

[28, 29, 30. *Constitutional and Political History of the United States since* 1787.]

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not offered in 1904-05. To be offered in 1905-06.

The organization of the national government and its administrative development; slavery; extension of national territory; the bank controversy; the Civil War; the reconstruction period. Third term devoted to the period from 1861 to the present. Methods of instruction as in 25, 26, 27.

Professor MACDONALD

37, 38, 39. *Research Course in American History.*

Three hours. One hour of class-room attendance. Through the year. Elective for Graduates and approved Seniors.

Designed to afford training in historical investigation and practice in the use of sources. There is no formal examination, but each member of the class is expected to present each term a piece of written work, on an assigned topic, embodying the results of special research. The course presupposes a knowledge of 25, 26, 27 or 28, 29, 30, but by special permission it may be taken by those who are at the same time taking 25, 26, 27 or 28, 29, 30. The subjects vary from year to year, being chosen from the colonial and constitutional periods in alternate years. For 1904-05 the subjects are: First Term, the ratification of the Constitution by the states; Second Term, the administration of John Adams; Third Term, the northern boundary of the United States.

Professor MACDONALD

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[XII. History, continued.]

31, 32, 33. *Principles of Historical Criticism and Research.*

One hour. Through the year. Elective for Graduates of one year's standing. Required of all candidates for the degree of Doctor of Philosophy in History.

First and Second Terms, the general principles of historical criticism and the literature of historical theory. Langlois and Seignobos's *Introduction to the Study of History* is used as a manual. Third Term, historical bibliography, the periods chosen varying from year to year.

Professor MacDonald

XIII. INDO-EUROPEAN PHILOLOGY

Professor Allinson

[1. *General Introduction to the Study of Language.*]

Three hours. Third Term. Elective for Freshmen and Sophomores. Not offered in 1904-05.

Outline of the history of language. The Indo-European family. Adapted for students of ancient or modern languages. A continuation of Greek 47, Latin 48. The three terms together constitute the course in Greek and Roman literature and the History of Language. Alternates with Greek 46, Latin 46, 47.

4, 5, 6. *Sanskrit, elementary course.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

Whitney's *Grammar*, Lanman's *Reader*. Selections from the Vedic Hymns.

7. *Seminary in Comparative Philology.*

One two-hour session weekly. Third Term. Elective for Graduates and approved Seniors.

Intended for advanced students in Greek and Latin.

[10, 11, 12. *Sanskrit, advanced course.*]

One hour. Through the year. Elective for students who have passed in 4, 5, 6 or an equivalent. Not offered in 1904-05.

Vedic Hymns and other selections.

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XIV. MATHEMATICS

Professors DAVIS, CLARKE, and MANNING, Messrs. CURRIER, HART, and FREEMAN

With the exception of courses 8, 11, and 30, the Undergraduate courses should be taken in the following order: 3, 1, 2, 9, 10, 12, 13, 14, 31, 15, 16, 17. Courses 8, 11, and 30 may be taken any time after the Freshman year. Courses 38, 39, 40, 41, 42, 43 are designed for students who are taking or who intend to take engineering courses. Courses 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, are designed for Graduates.

3. *Algebra.*

Four hours. First Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who did not present Solid Geometry and Plane Trigonometry for admission.

Professors CLARKE, DAVIS, and MANNING, Messrs. CURRIER and FREEMAN

1. *Geometry, Solid and Spherical.*

Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who did not present Solid Geometry and Plane Trigonometry for admission.

Professor MANNING, Messrs. HART and FREEMAN

2. *Trigonometry.*

Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who did not present Solid Geometry and Plane Trigonometry for admission.

Professor CLARKE, Messrs. CURRIER and HART

4. *Spherical Trigonometry.*

One hour. First Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have passed in 2 and who have not had Spherical Trigonometry.

Mr. HART

5, 6, 7. *Algebra.*

One hour. First Term. Two hours. Second and Third Terms. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission.

Professors DAVIS and MANNING, Mr. HART

8. *Determinants and Theory of Equations.*

Three hours. Second Term. Elective for students who have passed in 3 or 5, 6, 7.

Professor MANNING

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[XIV. Mathematics, continued.]

38. *Algebra.*

Six hours. First Term. Required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering, or Electrical Engineering.

Messrs. CURRIER, HART, and FREEMAN

39. *Trigonometry, Plane and Spherical.*

Six hours. Second Term. Required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering, or Electrical Engineering.

Professor DAVIS and Mr. CURRIER

40. *Analytic Geometry.*

Six hours. Third Term. Required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering, or Electrical Engineering.

Professor DAVIS, Messrs. CURRIER and FREEMAN

41. *Differential Calculus.*

Five hours. First Term. Required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering, or Electrical Engineering.

Professor DAVIS and Mr. CURRIER

42, 43. *Integral Calculus.*

Three hours. Second and Third Terms. Required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering, or Electrical Engineering.

Professor DAVIS and Mr. CURRIER

9, 10. *Analytic Geometry.*

Three hours. First and Second Terms. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have passed in 1, 2, and 3.

Professor DAVIS

11. *Modern Methods of Analytic Geometry.*

Three hours. Third Term. Elective for students who have passed in 10.

Professor MANNING

[30. *Solid Analytic Geometry.*]

Three hours. Third Term. Elective for students who have passed in 10. Not offered in 1904-05.

Professor MANNING

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[XIV. Mathematics, continued.]

12. *Differential Calculus.*

Three hours. Third Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have passed in 10.

Professor DAVIS

13. *Integral Calculus.*

Three hours. First Term. Elective for students who have passed in 12.

Professor DAVIS

14. *Applications of the Differential Calculus.*

Three hours. Second Term. Elective for students who have passed in 12 and 13.

Professor DAVIS

31. *Applications of the Integral Calculus.*

Three hours. Third Term. Elective for students who have passed in 13.

Professor MANNING

15, 16, 17. *Differential Equations.*

Three hours. Through the year. 15 and 16 are required of candidates for the degree of Bachelor of Science in Electrical Engineering. Elective for students who have passed in 13.

Professor MANNING

[18, 19, 20. *General Theory of Curves and Surfaces.*]

Three hours. Through the year. Elective for Graduates and approved Seniors. Not offered in 1904-05.

Professor MANNING

21, 22, 23. *Theory of Functions.*

Three hours. Through the year. Elective for Graduates and approved Seniors.

Professor MANNING

[24, 25, 26. *Differential Equations, advanced course.*]

Three hours. Through the year. Elective for Graduates who have passed in 23. Not offered in 1904-05.

Professor MANNING

27, 28, 29. *Advanced Algebra.*

Three hours. Through the year. Elective for Graduates and for approved Seniors.

Professor MANNING

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[XIV. Mathematics, continued.]

[32, 33, 34. *Foundations of Geometry, Non- Euclidean Geometry, and Hyper-Space.*]

Three hours. Through the year. Elective for Graduates and for approved Seniors. Not offered in 1904-05.

Professor MANNING

Two or three of the groups of courses 18-34 are offered each year according to the requirements of the students. For those who have taken them all, other courses can usually be arranged.

XV. MECHANICAL ENGINEERING

Professors CLARKE and KENERSON, Messrs. BROOKS, APPLETON, and H. D. CADY

All courses in this department are required of candidates for the degree of Bachelor of Science in Mechanical Engineering. Though courses 10 *to* 16 *are all open to Sophomores, Juniors, and Seniors, no more than two of them may be counted towards the degree of Bachelor of Arts or Bachelor of Philosophy.*

A thesis is required before graduation of all candidates for the degree of Bachelor of Science in Mechanical Engineering. It may be based on extended independent study, on original experiments by the student, or on an original design of some complicated machine. In any case it must exhibit satisfactory ability in the student as an engineer.

10, 11, 12. *Wood-work.*

Three hours. Seven hours of attendance. Elective for Sophomores, Juniors, and Seniors.

Exercises in carpentry, wood-turning, and pattern-making.

Mr. CADY

13, 14, 15, 16. *Metal-work.*

Three hours. Seven hours of attendance. Elective for Sophomores, Juniors, and Seniors.

Exercises in chipping and filing, use of machine tools, forging and hardening tools, etc.

Mr. CADY

20, 21, 22, 23. *Kinematics.*

Three hours. Third, First, Second, and Third Terms. Elective for students who have passed in Drawing 10, 11.

Velocity ratios, rolling curves, cams, gearing, linkwork, belting, trains of mechanism and aggregate combinations; machine tools and the application of the foregoing principles to produce the desired relative motions of parts in such machines. Recitations, drawing, and the solution of problems. Three hours of drawing are considered the equivalent of one hour of recitation.

Mr. BROOKS

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[XV. Mechanical Engineering, continued.]

24, 25, 26, 27. *Machine Design.*

Three hours. Six hours of attendance. First, Second, Third, and Third Terms. Elective for students who have passed in 20, 21, 22, 23 and Mechanics 3, 4, 6.

Principles of mechanics and strength of materials applied to the design of representative types of boilers, engines, and various mechanisms. Solution of problems illustrating the method of designing bolts and nuts, keys, journals and bearings, fly-wheels, valve gears, etc. Lectures, calculation, and drawing.

Mr. BROOKS

30, 31, 32. *Steam Engineering.*

Three hours. First, Second, and Third Terms. Elective for students who have passed in or are taking 33, 34, 35.

Practical applications of the principles of thermodynamics and mechanics to the production, transmission, utilization, and measurement of power. Valves and valve gears, and valve setting. Indicator practice and tests of various forms of steam engines, gas engines, etc. Standardization of auxiliary apparatus used in making the various tests. Boiler testing, flue gas and fuel analysis, etc. Largely a laboratory course.

Professor KENERSON

33, 34, 35. *Thermodynamics.*

Three hours. First, Second, and Third Terms. Elective for students who have passed in Physics 1, 2, 4 and Mathematics 12, 13, 14 or 41, 42, 43.

Principles of gases and vapors as applied to steam, gas, and other heat engines, air-compressor, refrigerating apparatus, etc. Discussion of the energy of fuel and the utilization of such energy for power purposes by means of various media. Laws of the relation of variations of pressure, temperature, and volume of such media. Design of proper cylinders for producing a desired amount of power. Principles of the injector and ejector.

Professor KENERSON

40, 41. *Materials of Engineering.*

Three hours. First and Second Terms. Elective for students who have passed in Mechanics 3, 4, 6.

Study of the sources, manufacture, and properties of the important materials used in engineering. Laboratory tests to determine the behavior of materials when subjected to tensile, compressive, and tortional stresses. Mixing and testing of cements and mortars. Preparation and examination of sections for the microscopical study of the structure of metals and alloys.

Professor KENERSON and Mr. APPLETON

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[XV. Mechanical Engineering, continued.]

42. *Power Plant Engineering.*

Three hours. Third Term. Elective for students who have passed in 30, 31, 32.

Discussion of the relation and co-ordination of various parts of the complete power plant. Management and methods of determining efficiency. Selection of best equipment for solution of various engineering problems from manufacturers' catalogues and actual inspection. Lectures, recitations, tests, and tours of inspection.

Professor KENERSON

[43. *Engineering Laboratory, advanced course.*]

Three hours. First Term. Not offered in 1904-05.

Professor KENERSON

MECHANICS

Professor CLARKE

3, 4, 6. *Mechanics of Solids.*

Three hours. Through the year. Elective for students who have passed in Mathematics 9, 10, and 12, and who are taking Mathematics 13.

Statics; dynamics, including rectilinear and curvilinear motion, virtual velocity, moment of inertia, work, energy and power, friction; strength of materials, including tension, compression, shearing, torsion, flexure, arches, and methods of graphical solution of problems.

7, 8. *Mechanics of Fluids.*

Three hours. First and Second Terms. Elective for students who have passed in 3, 4, 6.

Hydrostatics of liquids, including pressure of liquids in tanks and reservoirs, earth pressure and retaining walls, immersion and flotation; hydrodynamics, including steady flow, impulse, and resistance.

Courses 3, 4, 6, and 7, 8 cover essentially the same ground as Church's *Mechanics of Engineering*, supplemented by a large number of original problems illustrative of the principles under the different conditions which arise in their application.

XVI. PHILOSOPHY

President FAUNCE, Professors DELABARRE, EVERETT, JACOBS, and MEIKLEJOHN

PHILOSOPHY AND PSYCHOLOGY

Some three-hour, three-term course in this department is required of every candidate for the degree of Bachelor of Arts or Bachelor of Philosophy. The courses in Education cannot be taken to satisfy this requirement.

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[XVI. Philosophy, continued.]

19, 27, 43. *Logic.*

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors.

Aims, methods, and limitations of human thinking; a preparation for work in the sciences and in philosophy. First Term, general introduction and formal logic; Second Term, principles and methods of the natural sciences; Third Term, relations of science to philosophy; philosophical interpretation and criticism of the results of science.

Professor MEIKLEJOHN

2, 3, 4. *Psychology, introductory course.*

Three hours. Through the year. Elective for Juniors.

Main facts and laws of mental life, with particular attention to their arrangement in a scientific system, and to their philosophical bearing. The course furnishes a knowledge of mental law important for practical life, and serves also as a transition from the special sciences to philosophy.

Professor DELABARRE

20, 21, 22. *Psychology, advanced course.*

Three hours. Through the year. Elective for Seniors and Graduates.

A seminary for the discussion of important and interesting questions in psychology, especially the problems of hypnotism and psychical research.

Professor DELABARRE

29, 30, 31. *Experimental Psychology, introductory laboratory course.*

Three hours. Six hours of attendance. Through the year. Elective for Juniors, Seniors, and Graduates who have taken or are taking 2, 3, 4.

Description of the main lines and results of experimental research; demonstrations by the instructor or the class; training in the use of apparatus and in careful scientific observation and measurement.

Professor DELABARRE

39, 40, 41. *Experimental Psychology, advanced and original laboratory work.*

One to six hours. Two to twelve hours of attendance. Through the year. Elective for students who have taken 29, 30, 31. This course may be taken for more than six hours by Graduates, with double the number of hours of attendance.

The problems investigated vary and the course may therefore be taken two or more years in succession. The aim is to make original contributions to scientific knowledge in psychology and to publish the results.

Professor DELABARRE

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[XVI. Philosophy, continued.]

8, 9, 10. *History of Philosophy.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

First Term, Greek philosophy; Second Term, mediæval and early modern philosophy; Third Term, recent and contemporary philosophy. The successive philosophical systems in their dialectical development and mutual relations; treatment not merely analytic and historical, but synthetic and constructive as well.

Professor EVERETT

5, 23. *Theoretical Ethics.*

Three hours. First and Second Terms. Elective for Seniors and Graduates.

Intended to aid in mastering the fundamental problems of life and character. First Term, a discussion of the nature and relations of ethics and an outline of the history of the chief ethical systems; Second Term, a critical study of the fundamental concepts of ethics with the aim of constructing a tenable theory of conduct.

Professor EVERETT

44. *Practical Ethics.*

Three hours. Third Term. Elective for Juniors.

Intended to apply ethical theory to the life of the individual, the family, and the state. Discussion of current problems, personal, industrial and social, from the ethical standpoint.

President FAUNCE

[26. *Outlines of the History of Religion.*]

Two hours. Second Term. Elective for Seniors and Graduates. Not offered in 1904-05.

Professor EVERETT

24. *Philosophy of Religion.*

Three hours. Third Term. Elective for Seniors and Graduates.

An investigation of the ultimate grounds of religious belief. Intended for students who have had previous philosophical training.

Professor EVERETT

14, 28, 42. *Philosophical Seminary.*

Three hours. Through the year. Elective for Graduates.

Lectures, written reports, and discussions on the more difficult problems of philosophy. Subject for 1904–05: Studies in Contemporary Philosophy.

Professor EVERETT

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[XVI. Philosophy, continued.]

[17. *Discussions in Casuistry.*]

One hour. Second Term. Elective for Seniors and Graduates. Not offered in 1904–05.

Professor MEIKLEJOHN

33, 34, 35. *Kantian and Post-Kantian Philosophy.*

Three hours. Through the year. Elective for Seniors who have taken Philosophy 8, 9, 10, and for Graduates.

Kant's *Critique of Pure Reason* studied as the source of German Rationalism; the same line of thought traced in the *Critique of Practical Reason*, and in the works of Fichte, Schelling, and Hegel.

Professor MEIKLEJOHN

[6, 7, 11. *Advanced Logic.*]

Three hours. Through the year. Elective for Graduates. Not offered in 1904–05.

A seminary for the discussion of the more fundamental problems of logical theory. Reading, written reports, and discussions.

Professor MEIKLEJOHN

A Philosophical Club, consisting of Graduates, Seniors, and Juniors who are studying Philosophy, meets once a month for the reading of papers and for discussion. Though the organization is primarily in the hands of the students, the officers of instruction in the philosophical department and other persons interested in philosophy attend.

EDUCATION

Professor JACOBS

1. *History of Education.*

Three hours. First Term. Elective for Juniors, Seniors, and Graduates.

Education among the Greeks and Romans; rise and constitution of Universities; Erasmus and the Humanists; Comenius and the Realists; Rousseau and the Naturalists; development of educational psychology by Pestalozzi, Froebel, Herbart. The history of education considered from the point of view of the history of civilization.

2. *Critical Study of Modern Education.*

Three hours. Second Term. Elective for Juniors, Seniors, and Graduates.

Present theories as growing out of past theories; effectiveness of present American systems compared with that of past systems and that of present foreign systems; influences of education upon the state and society; current experiments; problems which an adequate theory of education must solve.

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[XVI. Philosophy, continued.]

3. *Fundamental Principles of Education.*

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates.

The meaning and aim of education; the function of education as a social institution; the sequence and coördination of studies; the principles of instruction; apperception; the steps in method; the use of the type in instruction; the training of the will; the principles of moral education.

Courses 1, 2, and 3 treat of education in its relation to the individual, and to the social and political whole, and their interest is therefore not limited to those who intend to teach. At the same time they form an introduction to the courses which follow. Those who intend to teach are advised to elect these courses during the Junior year.

4. *Psychology of Education.*

Three hours. First Term. Elective for Seniors and Graduates.

Theory and process of mental development, with special emphasis upon the period of adolescence. Psychology of method, and of the various studies and disciplines. Directions in which student and teacher may utilize a knowledge of the more fundamental activities of mind. An extended acquaintance with psychology, while useful, is not necessary to the profitable pursuit of the course.

5. *Hygiene of Education.*

Three hours. Second Term. Elective for Seniors and Graduates.

The hygiene of growth; physical culture and athletics; play and fatigue; sight and hearing; school diseases; school architecture, warming, ventilating and lighting; sanitation; school furniture; school programs.

6. *Practical Introduction to Teaching.*

Three hours. Third Term. Elective for Seniors and Graduates.

The method of the recitation. Management and discipline of classes. Observation of good teaching. Practical applications of method.

Teachers' Certificates. Courses 1–6 cover the requirements in professional studies for certificates of the First Grade in all states except where practice-teaching or experience is demanded. In Rhode Island the holding of a certificate is required of all teachers in schools supported in whole or in part by public money. Certificates of the First Grade are granted without examination to those who have completed these courses and hold a college degree. Due credit is also given for separate courses.

7, 8, 9. *Methods in Secondary School Studies and the Organization, Equipment, and Management of Secondary Schools.*

Three hours. Two hours of class-room attendance. Required of student-teachers. Elective for Graduates and experienced teachers. Each term may be elected separately.

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[XVI. Philosophy, continued.]

Importance and meaning of secondary school studies; their organization into a curriculum; method as applied to each subject; the resources at the command of the teacher. The following studies receive special attention: First Term, Latin and Modern Languages; Second Term, History and English; Third Term, Science and Mathematics. For explanation of the work of student-teachers, see page 159.

10, 11, 12. *Training in Practical Teaching—Secondary Schools.*

Three hours. Through the year. Elective for Graduates who have completed the elementary courses in Education.

Practice teaching in the Providence high schools under experienced teachers. Observation, reports, conferences. Designed to train those who wish to become instructors in colleges, teachers or principals in secondary schools, or superintendents of schools. For explanation of the work of student-teachers, see page 159.

The practice teaching is done under the following supervising teachers: Charles E. Dennis, Ph. D., *Latin;* Victor Frazee, A. M., *History;* Charles E. Tilley, A. M., *Physics and Chemistry;* Grace H. Parker, A. B., *Natural Science;* Horace E. Jacobs, A. M., *Mathematics and Latin;* Florence J. Whiting, A. M., *Physics and Chemistry;* Sidney A. Sherman, Ph. D., *Mathematics and Civics.*

16, 17, 18. *Training in Practical Teaching—Grammar Grades.*

Three hours. Through the year. Elective for Graduates who have completed the elementary courses in Education and who are pursuing courses 13, 14, 15.

Practice-teaching in the Providence grammar schools under experienced teachers. Observation, reports, conferences. Designed especially to train those who wish to become grade teachers, assistant principals, principals of grammar schools, or superintendents; but also furnishes practical training for those who wish to teach in secondary schools. This course is open also to a limited number of Seniors by special permission. For explanation of the work of student teachers, see page 159.

The practice teaching is done under the following supervising teachers: Isaac O. Winslow, A. M., *Grammar Grades;* Mary Williams, *Eighth Grade,* and the Grammar Critics of the Providence public schools.

13, 14, 15. *Seminary in Educational Problems.*

Three hours. Two hours of class-room attendance. Required of student teachers. Elective for Graduates and experienced teachers. Each term may be elected separately.

The seminary meets on Saturday mornings. Reviews and discussions of recent publications; reports on special studies undertaken by members. Subjects vary from year to year. Those for 1904–05 are: First Term, Imitation; Social and ethical interpretations. Second Term, Recent types of educational theory. Third Term, an intensive study of some period in the history of education.

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XVII. PHYSICAL TRAINING

Mr. MARVEL

For the physical training of the students excellent opportunities are offered by the Lyman Gymnasium. It is thoroughly equipped with baths, dressing rooms, bowling alleys, and all kinds of apparatus usually found in modern gymnasiums. It has also a swimming pool—the Colgate Hoyt Swimming Pool—seventy-five feet in length by twenty-five feet in width, with a capacity of seventy-five thousand gallons. The pool is made of enamelled brick and marble, and is supplied with a filter to ensure the clearness and purity of the water. All the gymnasium work is under the care of an experienced gymnasium director, who makes a thorough examination and measurement of each student on entrance, and at other times during the year by request. Special cases are referred to Dr. G. W. Gardner, the university physician. Such exercises are prescribed as may be necessary to give health, strength, and symmetrical development. No student is allowed to attempt any feat which is likely to result in injury. In the second term, every undergraduate student is required to attend gymnasium exercises three times a week. The instructor gives five minute talks on personal hygiene and exercise. The class work consists of setting-up exercises, developing exercises, calisthenics, the use of clubs, dumb-bells, wands, and single sticks, and general athletics. In the first and third terms, voluntary work is provided. Instruction is also given in wrestling, boxing, and swimming. A special effort is made to teach all students to swim. In all the work, the aim is to develop health, strength, and vitality.

All branches of athletics are under the management of the Brown University Athletic Association and are controlled by an Athletic Board composed of representatives of the Faculty, alumni, and undergraduates. The Faculty Athletic Committee has general oversight of the deportment and scholarship of the members of the various teams. Lincoln Field adjoins the gymnasium and is a convenient place of exercise for the class teams and the students in general. Andrews Field, which is a mile and a half from the University, offers the usual opportunities for all the University teams.

XVIII. PHYSICS

Professors BARUS, PALMER, and WATSON

1, 32, 4. *Elementary Physics.*

Three hours. Through the year. Elective for Undergraduates who have taken Mathematics 1, 2, 3, or its equivalent.

First Term, kinematics and dynamics; Second Term, optics; Third Term, electricity. Lectures, illustrated by experiments and the lantern. Weekly written exercises corrected in detail by the instructors. Designed for those who have had little previous training in physics.

Professor BARUS

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[XVIII. Physics, continued.]

[2. *Molecular Physics.*]

Three hours. Second Term. Elective for Sophomores, Juniors, and Seniors who have passed in 1. Not offered in 1904–05.

Professor BARUS

[37. *Acoustics.*]

Three hours. Second Term. Elective for Sophomores, Juniors, and Seniors who have passed in 1. Not offered in 1904–05.

Professor BARUS

38. *Heat.*

Three hours. Second Term. Elective for Sophomores, Juniors, and Seniors who have passed in 1, 32, 4, and for engineering students with the special permission of the instructor.

Professor BARUS

NOTE: Courses 2, 32, 37, and 38, consist of lectures on the elementary principles of Molecular Physics, Optics, Acoustics, and Heat. One of these courses is given every year in connection with 1 and 4.

Graduates attending courses 1, 2, 4, 32, 37, 38, are held responsible for all the demonstrations, or for the full equivalent of either Watson's or Daniel's *Principles of General Physics.*

5, 9, 10. *Physical Measurements.*

Three hours. Six hours in the laboratory. Through the year. Elective for students who have passed in 1, 2, 4.

Elementary theory and practice of physical manipulation. Reports of experiments and solution of problems.

Professor PALMER

NOTE: Of the two following groups of courses—13, 14, 16 and 26, 27, 28—only one will be offered in any given year. In determining which shall be offered the preference of applicants will be considered.

13, 14, 16. *Mathematical Treatment of Dynamical Problems.*

Three hours. Through the year. Elective for Seniors and Graduates who have passed in 10 and Mathematics 16.

Lectures. First Term, discussion of the general principles of dynamics and the development of the general equations of motion; Second and Third Terms, application of these principles to special problems in thermodynamics and hydrodynamics.

Professor PALMER

26, 27, 28. *Mathematical Theory of Electricity and Magnetism.*

Three hours. Through the year. Elective for Graduates and Seniors who have passed in 10 and Mathematics 16.

Lectures. Includes a discussion of the more important problems of electrical science.

Professor PALMER

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[XVIII. Physics, continued.]

17, 18, 19. *Advanced Laboratory Course.*

Three or six hours. Six or twelve hours of attendance. Through the year. Elective for students who have passed in 10.

For those who are already familiar with the use of physical apparatus and are capable of carrying on investigations more or less independently. Special problems and reference to original sources for methods of solution.

Professor BARUS, PALMER, and WATSON

NOTE: Of the two following groups of courses—20, 21, 48 and 29, 30, 31—only one will be offered in any given year. In determining which shall be offered the preference of applicants will be considered.

20, 21, 48. *Applied Harmonic Analysis.*

Three hours. Through the year. Elective for Seniors and Graduates who have passed in 1, 2, 4 and Mathematics 14, 15.

Importance of Fourier's method shown by examples drawn from the analytical theory of heat, from elastics, alternating electricity, and elsewhere; treatment by the aid of spherical harmonics, Bessel functions and Lamé functions.

Professor BARUS

29, 30, 31. *Physics, advanced course.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates who have passed in Mathematics 12, 13, and 14.

Lectures on dynamics, potential elastics, hydrostatics, hydro-dynamics, viscosity, capillarity, electrostatics, magnetism, electro-magnetism, thermo-electrics, induction, Fresnel's optics, the electro-magnetic theory of light, thermal analytics, and thermo-dynamics. Completed in two years. Alternating, if desirable, with 20, 21, 48.

Professor BARUS

36, 39. *Precision Measurements in Photometry, Electricity, and Magnetism.*

Three hours. Six hours in the laboratorv. First and Second Terms. Elective for students who have passed in 10 and Mathematics 13.

Professor PALMER

46. *Applied Electro-Chemistry.*

Three hours. Six hours in the laboratory. Third Term. Elective for students who have passed in 39 and 15

Professor PALMER

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[XVIII. Physics, continued.]

NOTE: Courses 22-25 are courses in original research intended for qualified graduate students. They will be offered according to the needs of applicants. They occupy more or less time a week, according to the requirements of the students. Other courses in original research are offered to suit the special needs of advanced students.

22. *Behavior of Matter through Long Ranges of Temperature.*

Investigation of accurate methods and data in absolute pyrometry; determination of the high temperature constant of nonvolatile bodies with a view to the elucidation of fundamental questions in the physics of the earth's crust.

Professor BARUS

23. *Behavior of Matter through Long Ranges of High Pressure.*

Thermodynamics of the change of state from solid to liquid, due either to fusion or to solution, with especial reference to the continuity of solid and liquid, and to the location of the lower critical temperature.

Professor BARUS

24. *Absolute Viscosity of Solids as Compared with Liquids and Gases.*

Investigation of absolute data for the viscosity of solids.

Professor BARUS

25. *Physical Properties of the Iron Carburets.*

A consideration of the physical properties of iron, steel, and cast iron with reference to metallurgical and electro-technical problems.

Professor BARUS

Candidates for the degree of Master of Arts with a major in physics will be held responsible for at least one of the advanced courses in theoretical physics. The requirements for non-resident students taking their minor in physics are quite as advanced as for students in residence taking their major in physics. The department is able to offer every reasonable facility both for research work and for the study of the higher problems in physics; it is not able to offer much encouragement to those wishing to take degrees not in residence.

ELECTRICAL ENGINEERING

Professor WATSON

11. *Elementary Course.*

Three hours. First Term. Elective for students who have passed in Physics 4.

Definite instruction in methods of generating and utilizing electric currents; introductory to the technical courses, making with 12 and 15 a connected and comprehensive one-year course.

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[XVIII. Physics, continued.]

12. *Dynamo-Electric Machinery.*

Three hours. Two hours of recitation, and two hours of laboratory work. Second Term. Elective for students who have passed in 11, and who have taken or are taking Physics 5, 9, 10, and Mathematics 12.

Technical study of theory and working of direct current dynamo-electric machinery.

15. *Dynamo-Electric Machinery.*

Three hours. One hour of lecture and four hours of laboratory work. Third Term. Elective for students who have passed in 11 and 12.

Practical methods of operating and testing various sizes and types of standard dynamos and accessory apparatus. Lectures on alternating current machinery.

33. *Periodic or Alternating Currents of Electricity.*

Three hours. First Term. Elective for students who have passed in 15, and who have taken or are taking Mathematics 15.

A mathematical and graphical treatment.

34. *Utilization of Alternating Currents.*

Three hours. Second Term. Elective for students who have passed in 33. An extended treatment, for which courses 15 and 33 are preparatory.

35. *Alternating Current Machinery, laboratory course.*

Three hours. Six hours in the laboratory. Third Term. Elective for students who have passed in 34.

Testing of apparatus. The construction of apparatus may be undertaken as a minor portion of this course by suitably qualified students.

41. *Telephone and Telegraph Engineering.*

Three hours. Two hours of recitation and one hour in the laboratory. First Term. Elective for candidates for the degree of Bachelor of Science in Electrical Engineering. May be taken with 11.

The laboratory work is the construction of electrical apparatus.

40. *Development and Scope of Industrial Electricity.*

Three hours. Second Term. May be taken with 12.

42. *Design and Calculation of Direct Current Machinery.*

Three hours. Third Term. May be taken with 15.

Time spent in actual drawing will count as laboratory work.

43. *Electric Railway Engineering.*

Three hours. First Term. Elective for students who have passed in 15.

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[XVIII. Physics, continued.]

44. *Design and Calculation of Alternating Current Machinery.*
Three hours. Second Term. Elective for students who have passed in 33.

45. *Central Station Design, Equipment, and Systems of Distribution.*
Three hours. Second Term. Elective for students who have passed in 33.

47. *Specific Engineering Problems.*
Three hours. Third Term.
Reading and discussion. Seminary method.

XIX. POLITICAL ECONOMY

Professor GARDNER and Dr. WILLETT

The courses in this department other than 12 *are open only to those students who have passed in Social Science* 12 (*first term*), *Political Science* 12 (*second term*), *and Political Economy* 12 (*third term*), *which together constitute a single course introductory to the advanced work of the departments of Social and Political Science and Political Economy.*

12. *Political Economy, elementary.*
Three hours. Third Term. Required of all candidates for the degree of Bachelor of Arts; elective for all other Sophomores, Juniors, and Seniors who have passed in Social Science 12 and Political Science 12.
Professor GARDNER

1, 2, 3. *General Economics.*
Three hours. Through the year. Elective for Juniors and Seniors.
First Term, the development and significance of the more important elements in the existing form of industrial organization. Second Term, the principles governing the distribution of wealth under the existing form of economic organization. Third Term, some of the more important economic problems.
Professor GARDNER (First and Second Terms), Dr. WILLETT (Third Term)

[6, 7. *Money and Banking.*]
Three hours. First and Second Terms. Elective for Juniors, Seniors, and Graduates. Not offered in 1904–05. To be offered in 1905–06.
Principles of money and banking; recent monetary and banking history, particularly of the United States; monetary and banking systems of leading industrial nations; present monetary and banking problems.
Professor GARDNER

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[XIX. Political Economy, continued.]

9, 10, 11. *Public Finance.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1905–06.

First Term, general principles of public finance; revenues and expenditures of leading industrial nations. Second Term, financial history of the United States. Third Term, local finance; revenues, expenditures, and financial systems of American states and cities.

Professor GARDNER

[13, 14, 18. *History of Political Economy.*]

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not offered in 1904-05. To be offered in 1905-06.

Development of economic thought since the Middle Ages; economic theories now prevailing. Chief attention to the contributions made by the greater writers. Special emphasis on the relations between economic thought and economic life and practice. Dr. WILLETT

15. *The Labor Movement.*

Three hours. First Term. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1905-06.

History and analysis of the trade union movement, growth of collective bargaining, labor problems in the United States.

Dr. WILLETT

4. *Socialism.*

Three hours. Second Term. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1905-06.

A brief review of the historically important socialistic schemes; mainly a study of the modern scientific socialism of Karl Marx and of the resulting socialistic movements.

Dr. WILLETT

[16. *Industrial Corporations.*]

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates. Not offered in 1904-05. To be offered in 1905-06.

Development of the corporate form of business organization, its effects, the problems to which it gives rise. Special emphasis on the recent movements toward combination and toward control of corporations, particularly quasi-public corporations, by the State.

Professor GARDNER

17. *The Tariff.*

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1905-06.

The arguments for free trade and protection in relation to the principles of international trade; the history of tariff legislation and its effects in the United States.

Dr. WILLETT

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[XIX. Political Economy, continued.]

19. *Industrial History of England.*

Three hours. First Term. Elective for Juniors, Seniors, and Graduates.

The chief stages in the development of the industrial life of England, with special emphasis on the origin and development of the existing form of industrial organization.

Professor GARDNER

20. *Industrial History of the United States to* 1860.

Three hours. Second Term. Elective for Juniors, Seniors, and Graduates.

The most important aspects of the industrial development of the colonies and the United States to 1860.

Professor GARDNER

21. *Industrial Conditions in the United States since* 1860.

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates.

Special emphasis on the growth, organization, and geographical distribution of the main branches of industry, and on the relation of the industrial life of the United States to that of the world at large.

Professor GARDNER

5. *Insurance.*

Three hours. First Term. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1905-06.

Theory of risk and insurance. Organization of insurance companies. General principles of the technic of insurance. Investment of insurance funds. Preventive activities of insurance companies. Effect of the institution of insurance on amount of loss.

Dr. WILLETT

8. *Insurance.*

Three hours. Second Term. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1905-06.

Historical development and present condition of the insurance business. Economic and social effects of insurance. Attitude of the State towards insurance.

Dr. WILLETT

22, 23, 24. *Investigation of Special Topics.*

Three hours. Six hours of attendance. Through the year. Elective for approved Juniors, Seniors, and Graduates. Each term may be elected separately.

Intended to train the student in methods of gathering, handling, and presenting data in the study of economic life and problems. Laboratory methods.

Professor GARDNER and Dr. WILLETT

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XX. ROMAN LITERATURE AND HISTORY

Professors HARKNESS and GREENE

While grammatical study and literary criticism receive attention in the courses of the Freshman year, the special aim is to enable the student to acquire facility in reading and to instruct him in the use of the Latin texts as a means of acquiring a knowledge of Roman history.

In the Sophomore courses, the literary side of the study is made prominent. A part of the time is occupied with a critical study of the poems; a part is devoted to rapid reading with a view to comprehending the spirit of the authors. Lectures are given by the instructor, and literary topics are assigned to the class for special study.

The advanced courses open to Juniors and Seniors relate to the development and history of Roman literature. Poetry and prose are discussed in alternate years. The aim of these courses is to give a connected and comprehensive view of the entire range of Roman literature. Lectures are given on the lives and writings of the authors, and characteristic selections are read. Topics in literary history and criticism are assigned to members of the class for special study and investigation.

1. *Livy.*

Three hours. First Term. Elective for students who presented elementary and advanced Latin for admission.

Professors HARKNESS and GREENE

2. *Cicero's Letters.*

Three hours. Second Term. Elective for students who presented elementary and advanced Latin for admission.

Professors HARKNESS and GREENE

3. *Tacitus's Germania and Agricola.*

Three hours. Third Term. Elective for students who presented elementary and advanced Latin for admission.

Professors HARKNESS and GREENE

46, 47. *Roman Life.*

Three hours. Second and Third Terms. Elective for Freshmen and Sophomores.

The private and public life of the Romans based on the monuments and literature. Intended to give a comprehensive view of the general civilization of Rome. Lectures, supplemented by reading and reports. No knowledge of Greek or Latin is required. This course is a continuation of Greek 46. The three terms together constitute the course called History of Greek and Roman Life and Institutions.

Professor GREENE

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[XX. Roman Literature and History, continued.]

[48. *Roman Literature.*]

Three hours. Second Term. Elective for Freshmen and Sophomores. Not offered in 1904-05.

A brief history of Roman literature. Some of the most important and characteristic works are studied in English translations. No knowledge of Latin is required. This course follows Greek 47 and is continued in the third term by Indo-European Philology 1. The three terms together constitute the course in Greek and Roman Literature and the History of Language.

Professor HARKNESS

4. *Horace's Odes and Epodes.*

Three hours. First Term. Elective for Sophomores.

Professor GREENE

5. *Catullus, Tibullus, and Propertius.*

Three hours. Second Term. Elective for Sophomores.

Professor GREENE

6. *Satires of Horace.*

Three hours. Third Term. Elective for Sophomores.

Professor HARKNESS

[7. *Origin of Latin Poetry and Development of the Drama.*]

Three hours. First Term. Elective for Juniors and Seniors. Not offered in 1904–05.

Readings from Plautus and Terence.

Professor HARKNESS

[8. *Poetry of the Republic, continued, and Poetry of the Augustan Age.*]

Three hours. Second Term. Elective for Juniors and Seniors. Not offered in 1904-05.

Readings from Lucretius and other authors of this period.

Professor HARKNESS

[9. *Poetry of the Silver Age.*]

Three hours. Third Term. Elective for Juniors and Seniors. Not offered in 1904-05.

Professor HARKNESS

11. *Prose of the Early Republican Period.*

Three hours. First Term. Elective for Juniors and Seniors.

Lectures on prose; reading from Terence. Development of oratory; reading from specimens of early Latin, from Cicero's *Brutus*, and from Quintilian.

Professor HARKNESS

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[XX. Roman Literature and History, continued.]

12. *Prose of the Later Republican Period.*

Three hours. Second Term. Elective for Juniors and Seniors. Reading from Cicero.

Professor HARKNESS

13. *Prose of the Silver Age.*

Three hours. Third Term. Elective for Juniors and Seniors. Reading from the *Annals* of Tacitus.

Professor HARKNESS

[10, 14, 15. *Private Life and Antiquities of Rome.*]

One hour. Through the year. Elective for Juniors, Seniors, and Graduates. Not offered in 1904-05.

Professor HARKNESS

16, 17, 18. *Petronius, Pliny the Younger, Martial.*

One hour. Through the year. Elective for Juniors, Seniors, and Graduates.

Professor HARKNESS

[19, 20, 21. *Epigraphy.*]

Two hours. Through the year. Elective for Graduates and qualified Undergraduates. Not offered in 1904-05.

Professor HARKNESS

[22, 23, 24. *Palæography and Textual Criticism.*]

Two hours. Through the year. Elective for Graduates and qualified Undergraduates. Not offered in 1904-05.

Professor HARKNESS

37, 38, 39. *Latin Composition.*

One hour. Through the year. Elective for Sophomores, Juniors, and Seniors.

Professor GREENE

40, 41, 42. *Seminary in Latin.*

Two hours. Through the year. Elective for Graduates.

Prose writers of the Empire. A study of the history of prose style. Reading from Gudeman's *Latin Literature of the Empire*, Volume I.

Professors HARKNESS and GREENE

The Harkness Classical Club meets once a month for the reading of papers and for discussion. Arrangements also are made from time to time for public addresses. The membership is open to Graduates and Undergraduates.

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XXI. ROMANCE LANGUAGES AND LITERATURES

Professors LANGDON, JOHNSON, and MORSE, Messrs. HUNKINS and KENYON

FRENCH

A, B, C. *Elementary French.*

Three hours. Through the year. Required of all students who did not present French for admission.

Grammar, composition, dictation, translation of selections from modern authors into idiomatic English. The equivalent of the French required for admission.

Professor MORSE, Messrs. HUNKINS and KENYON

1, 2, 3. *French Language, intermediate course.*

Three hours. Through the year. Required of all students who presented elementary French for admission.

Syntax, translation of modern authors, written and oral translation into French of exercises based upon the texts read, dictation. Intended to give students a large working vocabulary.

Professors JOHNSON and MORSE, Messrs. HUNKINS and KENYON

10, 11, 12. *French Language and Literature.*

Three hours. Through the year. Elective for students who presented advanced French for admission, or who received only a pass-mark in 1, 2, 3.

An introduction to the best French literature of the nineteenth century; includes some study of the language.

Professor MORSE and Mr. HUNKINS

[4, 5, 6. *French Literature from* 1800 *to* 1850.]

Three hours. Through the year. Elective for students who have passed with credit in 1, 2, 3, or have passed in 10, 11, 12. Not offered in 1904–05.

Professor JOHNSON

[19, 20, 21. *French Literature since* 1850.]

Three hours. Through the year. Elective for students who have passed with credit in 1, 2, 3, or have passed in 10, 11, 12. Not offered in in 1904–05. To be offered in 1905–06.

Flaubert, Les Goncourt, Zola, Daudet, Renan, Augier, Dumas fils, Rostand, and others.

Professor JOHNSON

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[XXI. Romance Languages and Literatures, continued.]

13, 14, 15. *Practice in Writing and Speaking French.*

Three hours. Through the year. Elective for students who have passed with credit in 1, 2, 3 or 10, 11, 12.

Intended especially for those preparing to teach. A large amount of composition, abstracts (in French) of assigned reading, dictation, conversation, oral translation into French of an English novel, abstracts of French read in class by the instructor.

Professor JOHNSON

[16, 17, 18. *Old French.*]

Three hours. Through the year. Elective for Seniors and Graduates. Not offered in 1904–05.

The elements of Romance philology and an introduction to the literature of the Middle Ages in France.

Professor MORSE

22, 23, 24. *French Literature from* 1636 *to* 1800.

Three hours. Through the year. Elective for students who have passed in 6, 15, or 21.

Corneille, Pascal, Madame de La Fayette, Molière, Racine, La Fontaine, Boileau, Bossuet, Madame de Sévigné, Saint-Simon, Marivaux, Le Sage, Voltaire, Beaumarchais, and others.

Professor JOHNSON

37, 38, 39. *The French Drama.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates who have passed with credit in French 1, 2, 3.

The drama from Corneille to Rostand, with special study of its classical and romantic sources and influences.

Professor LANGDON

ITALIAN

1, 2, 3. *Modern Italian.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

Grammar, composition, conversation, and rapid translation of modern authors.

Professors LANGDON and MORSE

4, 5, 6. *Dante.*

Three hours. Through the year. Elective for students who have had 1, 2, 3, or its equivalent.

The *Divina Commedia* read in the original.

Professor LANGDON

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[XXI. Romance Languages and Literatures, continued.]

COMPARATIVE LITERATURE

1, 2, 3. *Dante in English.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

A study of the whole of the *Divina Commedia* in English in the light of modern thought and in connection with other great world-poems, *Job*, the *Iliad-Odyssey*, the *Æneid*, *Hamlet*, *Paradise Lost*, *Faust*, and *The Ring and the Book*. An introduction to a study of comparative literature by means of the best available translations.

Professor LANGDON

SPANISH

1, 2, 3. *Modern Spanish.*

Three hours. Through the year. Elective for Juniors, and for Sophomores not electing more than one other modern foreign language.

Grammar, conversation, composition, writing from dictation, and rapid reading.

Professor JOHNSON

[4, 5, 6. *Spanish Literature of the Nineteenth Century.*]

Three hours. Through the year. Elective for students who have passed in 1, 2, 3. Not offered in 1904-05. To be offered in 1905-06.

Gil y Zárate, Moratin, Núñez de Arce, Tamayo, Echegaray, Alarcón, Valera, Galdós, Valdés, and Pardo Bazán.

Professor JOHNSON

7, 8, 9. *Spanish Classics.*

Three hours. Through the year. Elective for students who have passed in 1, 2, 3.

Cervantes, Lope, Calderón, Téllez, and others.

Professor JOHNSON

XXII. SOCIAL AND POLITICAL SCIENCE

Professors WILSON and DEALEY

The courses in this department other than 12 *are open only to those students who have passed in Social Science* 12 (*first term*), *Political Science* 12 (*second term*), *and Political Economy* 12 (*third term*), *which together constitute a single course introductory to the advanced work of the departments of Social and Political Science and Political Economy.*

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[XXII. Social and Political Science, continued.]

SOCIAL SCIENCE

12. *Elementary Course.*

Three hours. First Term. Required of all candidates for the degree of Bachelor of Arts; elective for all other students. May be taken in the Sophomore, Junior, or Senior year.

Professor WILSON

10. *Social Institutions.*

Three hours. First Term. Elective for Juniors, Seniors, and Graduates.

Development, forms, importance, as shown in the family, the church, etc.

Professor DEALEY

2, 3. *Social Problems and Conditions.*

Three hours. Second and Third Terms. Elective for Juniors, Seniors, and Graduates.

Relates to charity, criminology, etc.

Professor WILSON

4. *Social Philosophy.*

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates.

Aims and ideals in social life; social well-being.

Professor DEALEY

NOTE: Courses 1, 5, 11, 7, 8, 9 are primarily for Graduates and may be elected by those Undergraduates only who are approved by the department. These courses are given according to the needs of qualified applicants.

1. *The Principles of Sociology.*

Three hours. Offered in either the First, Second, or Third Term, if applied for by Graduates.

Nature of society. Social forces and environment.

Professor WILSON

5. *Development of Social Theory.*

Three hours. Offered in either the First, Second, or Third Term, if applied for by Graduates.

Traces important theories, ancient and modern, in regard to social conditions and development.

Professor DEALEY

11. *Demography.*

Three hours. Offered in either the First, Second, or Third Term, if applied for by Graduates.

Dispersion of races. Social study of race characteristics. Emigration, immigration, etc.

Professor WILSON

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[XXII. Social and Political Science, continued.]

7, 8, 9. *Current Social Theory and Practice.*

One hour. Through the year. Elective for Graduates.

Professors WILSON and DEALEY

22, 23, 24. *Investigation of Special Topics.*

Three hours. Six hours of attendance. Through the year. Elective for approved Juniors, Seniors, and Graduates. Each term may be elected separately.

Intended to train the student in methods of gathering, handling, and presenting data in the study of social problems. Laboratory methods.

Dr. WILLETT

POLITICAL SCIENCE

12. *Elementary.*

Three hours. Second Term. Required of all candidates for the degree of Bachelor of Arts; elective for all other students. May be taken in the Sophomore, Junior, or Senior year. Social Science 12 must have been taken previously.

Professor DEALEY

3. *International Law and Relations.*

Three hours. First Term. Elective for Juniors, Seniors, and Graduates.

Professor WILSON

7. *Diplomacy and World Politics.*

Three hours. Second Term. Elective for Juniors, Seniors, and Graduates.

Art and practice of international negotiation, with particular reference to foreign diplomacy.

Professor WILSON

11. *Diplomacy and World Politics.*

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates.

Development and problems of American diplomacy.

Professor WILSON

4. *United States Government.*

Three hours. First Term. Elective for Juniors, Seniors, and Graduates.

Constitution, organization, powers, and methods of our national system of government.

Professor DEALEY

15. *Local and Municipal Government.*

Three hours. Second Term. Elective for Juniors, Seniors, and Graduates.

Organization and functions of the states and cities of the United States.

Professor DEALEY

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[XXII. Social and Political Science, continued.]

NOTE: Course 15 is supplemented by course 35 on Municipal Improvements offered by the department of Civil Engineering.

2. *Comparative Study of Constitutions.*

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates.

With special reference to the constitutions of Germany, France, Great Britain, and Switzerland.

Professor DEALEY

NOTE: Courses 1, 16, 6, 17, 18, 19, 13, 14, 5, 8, 9, 10 are primarily for Graduates and may be elected by those Undergraduates only who are approved by the department. These courses are given according to the needs of qualified applicants.

1. *The State.*

Three hours. Offered in either the First, Second, or Third Term, if applied for by Graduates.

Origin, forms, development, functions, and institutions of the state.

Professor DEALEY

16. *Constitutional Law.*

Three hours. Offered in either the First, Second, or Third Term, if applied for by Graduates.

Principles and development of constitutional law with special reference to the Constitution of the United States.

Professor DEALEY

6. *Roman Law.*

Three hours. Offered in either the First, Second, or Third Term, if applied for by Graduates.

The influence of Roman law on political institutions.

Professor DEALEY

17. *Political Problems.*

Three hours. Offered in either the First, Second, or Third Term, if applied for by Graduates.

With special reference to the political problems of the United States.

Professor WILSON

18. *Political Parties.*

Three hours. Offered in either the First, Second, or Third Term, if applied for by Graduates.

Development of political problems in the United States and Europe.

Professor WILSON

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[XXII. Social and Political Science, continued.]

19. *The Latin-American Republics.*

Three hours. Offered in either the First, Second, or Third Term, if applied for Graduates.

Their governments and social conditions.

Professor DEALEY

13. *Administration.*

Three hours. Offered in either the First, Second, or Third Term, if applied for by Graduates.

Principles and national systems.

Professor WILSON

14. *Administration, continued.*

Three hours. Offered in either the First, Second, or Third Term, if applied for by Graduates.

Local and colonial.

Professor WILSON

5. *Development of Political Theory.*

Three hours. Offered in either the First, Second, or Third Term, if applied for by Graduates.

The growth of important political ideas traced from Plato to the present time, with emphasis on the evolution of democracy.

Professor DEALEY

8, 9, 10. *Current Political Theory and Practice.*

One hour. Through the year. Elective for Graduates.

Professors WILSON and DEALEY

22, 23, 24. *Investigation of Special Topics.*

Three hours. Six hours of attendance. Through the year. Elective for approved Juniors, Seniors, and Graduates. Each term may be elected separately.

Intended to train the student in methods of gathering, handling, and presenting data in the study of political problems. Laboratory methods.

Dr. WILLETT

XXIII. ZOÖLOGY, GEOLOGY, AND ANTHROPOLOGY

Professor PACKARD

ZOÖLOGY

1. *General Course on Invertebrate Animals.*

Three hours. Second Term. Elective for Juniors and Seniors.

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[XXIII. Zoölogy, Geology, and Anthropology, continued.]

3. *Organic Evolution.*

Three hours. Third Term. Elective for Juniors, Seniors, and Graduates.

Primary and secondary factors of evolution; relation of animals to the world around them; variation of species; zoögeography; effects of light, changes of temperature, food, climate, isolation; kinetogenesis; mimicry; heredity; views held by different schools of evolutionists. Lectures and demonstrations.

GEOLOGY

1. *Physical Geology.*

Three hours. First Term. Elective for Seniors.

5. *Structural and Stratigraphic Geology.*

Three hours. Six hours of field or laboratory work. First Term. Elective for Seniors.

2. *Historical Geology, including Paleontology.*

Three hours. Second Term. Elective for Seniors or for students who have passed in Geology 1 and Zoölogy 1 and 3.

Lectures, text-book, and laboratory work.

9. *Paleontology.*

Three hours. Third Term. Elective for students who have passed in Geology 1, 2.

ANTHROPOLOGY

1. *General Course.*

Three hours. Third Term. Elective for Seniors and Graduates.

The principles of ethnology, ethnography, and prehistoric archæology; man as related to other primates, origin of man, prehistoric races, language and race, writing, arts of life, amusements, primitive culture. Lectures, illustrated by relics of prehistoric races, including collections from New England shell-heaps, and by lantern views illustrating the fossil races of man and his art-remains in the Old World.

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Table of Elective Courses Offered in 1904-05 Arranged by Terms

FIRST TERM

Arabic 1 Sr.*
Aramaic 1 Sr.
Art 1 Jr. Sr.
" 7 Jr. Sr.
" 14 Jr. Sr.
Astronomy 1 Jr. Sr.
" 3 Jr. Sr.
" 17 So. Jr. Sr.
Biblical Literature 4 So. Jr. Sr.
Biblical Literature 7 Jr. Sr.
Botany 1 Fr. So. Jr. Sr.
Botany 7 So. Jr. Sr.
Chemistry 1 Fr. So. Jr. Sr.
Chemistry 4 So. Jr. Sr.
" 7 Jr. Sr.
" 10 Jr. Sr.
" 61 Jr. Sr.
" 71 Jr. Sr.
" 81 Jr. Sr.
" 101 Sr.
" 111 Sr.
Civil Engineering 1 So. Jr. Sr.
Civil Engineering 5, 5a Jr. Sr.
Civil Engineering 28 Sr.
Civil Engineering 29 Sr.
Civil Engineering 30 Sr.
Civil Engineering 35 Jr. Sr.
Comparative Anatomy 15 Fr. So. Jr. Sr.
Comparative Anatomy 3 So. Jr. Sr.
Comparative Anatomy 9 Jr. Sr.
Comparative Anatomy 18 Jr. Sr.
Comparative Anatomy 21 Jr. Sr.
Comparative Anatomy 16 Jr. Sr.
Comparative Literature 1 Jr. Sr.
Drawing 16 Fr. So. Jr. Sr.
Drawing 7 So. Jr. Sr.
" 8 So. Jr. Sr.
" 14 Jr. Sr.
" 10 So. Jr. Sr.
" 15 So. Jr. Sr.
" 2 Fr. So. Jr. Sr.
Education 1 Jr. Sr.
" 4 Sr.
English 22 So.
" 28 Jr. Sr.
" 7 So. Jr. Sr.
" 13 So. Jr. Sr.
" 16 So. Jr. Sr.
" 25 Jr. Sr.
" 31 Jr. Sr.
" 40 So. Jr. Sr.
" 67 Jr. Sr.
" 46 Jr. Sr.
" 43 So. Jr. Sr.
" 55 Jr. Sr.
" 61 Jr. Sr.
" 64 Sr.
" 73 Sr.
French 10 Fr. So. Jr. Sr.
French 22 Jr. Sr.
" 13 Fr. So. Jr. Sr.
French 37 Jr. Sr.
Geology 1 Sr.
" 5 Sr.
German 4 So. Jr. Sr.
" 5 So. Jr. Sr.
" 46 Jr. Sr.
" 16 Jr. Sr.
" 40 So. Jr. Sr.
" 34 Fr. So. Jr. Sr.
Greek A Fr. So. Jr. Sr.
" 1 Fr. So. Jr. Sr.
" 4 So.
" 16 Jr. Sr.
" 34 Sr.
" 46 Fr. Sr.
Hebrew 1 Jr. Sr.
" 13 Sr.
" 16 Sr.
History 18 Jr. Sr.
" 11 Jr. Sr.
" 22 Jr. Sr.
" 34 Sr.
" 25 Jr. Sr.
" 37 Sr.
Indo-European Philology 4 Jr. Sr.
Italian 1 Jr. Sr.
" 4 Sr.
Latin 1 Fr. So. Jr. Sr.
" 4 So.
" 11 Jr. Sr.
" 37 So. Jr. Sr.
" 16 Jr. Sr.

*Sr., Jr., So., Fr. indicate that the courses after which these abbreviations stand are open to Seniors, Juniors, Sophomores, or Freshmen, respectively.

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Mathematics 9 So. Jr. Sr.
Mathematics 13 So. Jr. Sr.
Mathematics 15 Jr. Sr.
" 21 Sr.
" 27 Sr.
Mechanical Engineering 21 Jr. Sr.
Mechanical Engineering 24 Sr.
Mechanical Engineering 30 Jr. Sr.
Mechanical Engineering 33 Jr. Sr.
Mechanical Engineering 40 Sr.
Mechanical Engineering 43 Sr.
Mechanical Engineering 10–16 So. Jr. Sr.
Mechanics 3 So. Jr. Sr.
" 7 Jr. Sr.
New Testament 5 Jr. Sr.
Philosophy 19 So. Jr. Sr.
Philosophy 2 Jr.
" 20 Sr.
" 29 Jr. Sr.
" 39 Sr.
" 8 Jr. Sr.
" 5 Sr.
" 33 Sr.
Physics 1 So. Jr. Sr.
" 5 Jr. Sr.
" 20 Sr.
" 26 Sr.
" 13 Sr.
" 29 Jr. Sr.
" 17 Sr.
" 36 Sr.
" 11 Jr. Sr.
" 33 Sr.
" 43 Sr.
Political Economy 1 Jr. Sr.
Political Economy 9 Jr Sr.
Political Economy 15 Jr. Sr.
Political Economy 19 Jr. Sr.
Political Economy 5 Jr. Sr.
Political Economy 22 Jr. Sr.
Political Science 4 Jr. Sr.
Political Science 3 Jr. Sr.
Social Science 12 So. Jr. Sr.
Social Science 10 Jr. Sr.
Spanish 1 So. Jr.
" 7 Jr. Sr.

SECOND TERM

Arabic 2 Sr.
Aramaic 2 Sr.
Art 4 Jr. Sr.
" 9 Jr. Sr.
" 15 Jr. Sr.
Astronomy 2 Jr. Sr.
" 4 Jr. Sr.
" 18 So. Jr. Sr.
Biblical Literature 5 So. Jr. Sr.
Biblical Literature 8 Jr. Sr.
Botany 2 Fr. So. Jr. Sr.
" 12 So. Jr. Sr.
Chemistry 2 Fr. So. Jr. Sr.
Chemistry 5 So. Jr. Sr.
" 8 Jr. Sr.
" 11 Jr. Sr.
" 62 Jr. Sr.
" 72 Jr. Sr.
" 82 Jr. Sr.
" 102 Sr.
" 112 Sr.
Civil Engineering 2 So. Jr. Sr.
Civil Engineering 4 Jr. Sr.
Civil Engineering 6 Jr. Sr.
Civil Engineering 10 Jr. Sr.
Civil Engineering 16 Sr.
Civil Engineering 31 Sr.
Civil Engineering 32 Sr.
Civil Engineering 36 Sr.
Civil Engineering 41 Sr.
Comparative Anatomy 1 Fr. So. Jr. Sr.
Comparative Anatomy 4 So. Jr. Sr.
Comparative Anatomy 10 Jr. Sr.
Comparative Anatomy 19 Jr. Sr.
Comparative Anatomy 17 Jr. Sr.
Comparative Literature 2 Jr. Sr.
Drawing 17 Fr. So. Jr. Sr.
Drawing 14 So. Jr. Sr.
" 8 So. Jr. Sr.
Drawing 11 So. Jr. Sr.
" 15 So. Jr. Sr.
" 19 So. Jr. Sr.
" 21 So. Jr. Sr.
" 3 Fr. So. Jr. Sr.
Education 2 Jr. Sr.
" 5 Sr.
English 23 So.
" 29 Jr. Sr.
" 11 Jr. Sr.
" 8 So. Jr. Sr.
" 14 So. Jr. Sr.
" 17 So. Jr. Sr.
" 26 Jr. Sr.
" 32 Jr. Sr.
" 41 So. Jr. Sr.
" 68 Jr. Sr.
" 47 Jr. Sr.
" 44 So. Jr. Sr.
" 56 Jr. Sr.
" 62 Jr. Sr.
" 65 Sr.
French 11 Fr. So. Jr. Sr.
French 23 Jr. Sr.
" 14 Fr. So. Jr. Sr.
French 38 Jr. Sr.
Geology 2 Sr.

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German 6 So. Jr. Sr.
" 7 So. Jr. Sr.
" 35 Fr. So. Jr. Sr.
" 47 Jr. Sr.
" 17 Jr. Sr.
" 41 So. Jr. Sr.
Greek B Fr. So. Jr. Sr.
" 2 Fr. So. Jr. Sr.
" 6 So.
" 23 So. Jr. Sr.
" 25 Jr. Sr.
" 43 So. Jr. Sr.
" 35 Sr.
Hebrew 2 Jr. Sr.
" 17 Sr.
" 14 Sr.
History 15 Jr. Sr.
" 3 Jr. Sr.
" 23 Jr. Sr.
" 35 Sr.
" 26 Jr. Sr.
" 29 Jr. Sr.
" 38 Sr.
Indo-European Philology 5 Jr. Sr.
Italian 2 Jr. Sr.
" 5 Sr.
Latin 2 Fr. So. Jr. Sr.
" 5 So.
" 12 Jr. Sr.
" 38 So. Jr. Sr.
" 46 Fr. So.
" 17 Jr. Sr.
Mathematics 8 So. Jr. Sr.
Mathematics 10 So. Jr. Sr.
Mathematics 14 So. Jr. Sr.
Mathematics 16 Jr. Sr.
" 22 Sr.
" 28 Sr.
Mechanical Engineering 22 Jr. Sr.
Mechanical Engnieering 25 Sr.
Mechanical Engineering 31 Jr. Sr.
Mechanical Engineering 34 Jr. Sr.
Mechanical Engineering 41 Sr.
Mechanical Engineering 10-16 So. Jr. Sr.
Mechanics 4 So. Jr. Sr.
" 8 Jr. Sr.
New Testament 1 Jr. Sr.
Philosophy 27 So. Jr. Sr.
Philosophy 3 Jr.
" 21 Sr.
" 30 Jr. Sr.
" 40 Sr.
" 9 Jr. Sr.
" 23 Sr.
" 34 Sr.
Physics 32 So. Jr. Sr.
Physics 9 Jr. Sr.
" 21 Sr.
" 27 Sr.
" 38 So. Jr. Sr.
" 14 Sr.
" 18 Sr.
" 39 Sr.
" 12 Jr. Sr.
" 30 Jr. Sr.
" 34 Sr.
" 40 Jr. Sr.
" 44 Sr.
" 45 Sr.
Political Economy 2 Jr. Sr.
Political Economy 10 Jr. Sr.
Political Economy 4 Jr. Sr.
Political Economy 20 Jr. Sr.
Political Economy 8 Jr. Sr.
Political Economy 23 Jr. Sr.
Political Science 12 So. Jr. Sr.
Political Science 7 Jr. Sr.
Political Science 15 Jr. Sr.
Social Science 2 Jr. Sr.
Spanish 2 So. Jr.
" 8 Jr. Sr.
Zoölogy 1 Jr. Sr.

THIRD TERM

Anthropology 1 Sr.
Arabic 3 Sr.
Aramaic 3 Sr.
Art 6 Jr. Sr.
" 8 Jr. Sr.
" 16 Jr. Sr.
Astronomy 6 Jr. Sr.
" 5 Jr. Sr.
" 19 So. Jr. Sr.
Biblical Literature 6 So. Jr. Sr.
Biblical Literature 9 Jr. Sr.
Botany 3 Fr. So. Jr. Sr.
Botany 9 So. Jr. Sr.
Chemistry 3 Fr. So. Jr. Sr.
Chemistry 6 So. Jr. Sr.
" 9 Jr. Sr.
" 12 Jr. Sr.
" 13 Sr.
" 23 Sr.
" 63 Jr. Sr.
" 73 Jr. Sr.
" 83 Jr. Sr.
" 103 Sr.
" 113 Sr.
Civil Engineering 3 So. Jr. Sr.
Civil Engineering 8, 8a So. Jr. Sr.
Civil Engineering 7 Jr. Sr.
Civil Engineering 11 Jr. Sr.
Civil Engineering 17 Jr. Sr.
Civil Engineering 18 So. Jr. Sr.
Civil Engineering 33 Sr.
Civil Engineering 34 Jr. Sr.
Civil Engineering 38 Sr.
Comparative Anatomy 35 Fr. So. Jr. Sr.

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Comparative Anatomy 38 Jr. Sr.
Comparative Anatomy 34 So. Jr. Sr.
Comparative Anatomy 2 So. Jr. Sr.
Comparative Anatomy 20 Jr. Sr.
Comparative Anatomy 30 Jr. Sr.
Comparative Anatomy 33 Jr. Sr.
Comparative Literature 3 Jr. Sr.
Drawing 18 Fr. So. Jr. Sr.
Drawing 14 So. Jr. Sr.
" 8 So. Jr. Sr.
" 12 So. Jr. Sr.
" 15 So. Jr. Sr.
" 20 So. Jr. Sr.
" 22 So. Jr. Sr.
" 4 Fr. So. Jr. Sr.
Education 3 Jr. Sr.
" 6 Sr.
English 24 So.
" 30 Jr. Sr.
" 12 Jr. Sr.
" 9 So. Jr. Sr.
" 15 So. Jr. Sr.
" 18 So. Jr. Sr.
" 27 Jr. Sr.
" 33 Jr. Sr.
" 42 So. Jr. Sr.
" 69 So. Jr. Sr.
" 48 Jr. Sr.
" 45 So. Jr. Sr.
" 57 Jr. Sr.
" 63 Jr. Sr.
" 66 Sr.
French 12 Fr. So. Jr. Sr.
French 24 Jr. Sr.
" 15 Fr. So. Jr. Sr.
French 39 Jr. Sr.
Geology 9 Sr.
German 8 So. Jr. Sr.
" 9 So. Jr. Sr.
German 48 Jr. Sr.
German 18 Jr. Sr.
" 42 So. Jr. Sr.
" 36 Fr. So. Jr. Sr.
Greek C Fr. So. Jr. Sr.
" 3 Fr. So. Jr. Sr.
" 5 So.
" 26 Jr. Sr.
" 24 So. Jr. Sr.
" 47 So. Jr. Sr.
" 36 Sr.
Hebrew 3 Jr. Sr.
" 18 Sr.
" 15 Sr.
History 16 Jr. Sr.
" 40 Jr. Sr.
" 24 Jr. Sr.
" 36 Sr.
" 27 Jr. Sr.
" 39 Sr.
Indo-European Philology 6 Jr. Sr.
Indo-European Philology 7 Sr.
Italian 3 Jr. Sr.
" 6 Sr.
Latin 3 Fr. So. Jr. Sr.
" 6 So.
" 13 Jr. Sr.
" 39 So. Jr. Sr.
" 18 Jr. Sr.
" 47 Fr. So.
Mathematics 11 So. Jr. Sr.
Mathematics 12 So. Jr. Sr.
Mathematics 31 So. Jr. Sr.
Mathematics 17 Jr. Sr.
" 23 Sr.
" 29 Sr.
Mechanical Engineering 20 So. Jr. Sr.
Mechanical Engineering 23 Jr. Sr.
Mechanical Engineering 26 Sr.
Mechanical Engineering 27 Sr.
Mechanical Engineering 32 Jr. Sr.
Mechanical Engineering 35 Jr. Sr.
Mechanical Engineering 42 Sr.
Mechanical Engineering 10-16 So. Jr. Sr.
Mechanics 6 So. Jr. Sr.
New Testament 2 Jr. Sr.
Philosophy 43 So. Jr. Sr.
Philosophy 4 Jr.
" 22 Sr.
" 31 Jr. Sr.
" 41 Sr.
" 10 Jr. Sr.
" 24 Sr.
" 35 Sr.
" 44 Jr.
Physics 4 So. Jr. Sr.
" 10 Jr. Sr.
" 28 Sr.
" 46 Sr.
" 16 Sr.
" 19 Sr.
" 48 Sr.
" 15 Jr. Sr.
" 31 Jr. Sr.
" 35 Sr.
" 47 Sr.
" 42 Jr. Sr.
Political Economy 12 So. Jr. Sr.
Political Economy 3 Jr. Sr.
Political Economy 11 Jr. Sr.
Political Economy 17 Jr. Sr.
Political Economy 21 Jr. Sr.
Political Economy 24 Jr. Sr.
Political Science 2 Jr. Sr.
Political Science 11 Jr. Sr.
Social Science 3 Jr. Sr.
" " 4 Jr. Sr.
Spanish 3 So. Jr.
" 9 Jr. Sr.
Zoölogy 3 Jr. Sr.

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Attendance, Examinations, and Standing

REGISTRATION AND ATTENDANCE

All undergraduate and resident graduate students who desire to attend the University during a given term are required to register at the Registrar's office before the first day of the term. Every undergraduate student who registers or changes his registration on or after the first day of any term is charged for such registration or change of registration a fee of three dollars. This fee may be remitted by the President or the Dean, on presentation of a satisfactory excuse.

Each student is expected to attend the daily chapel service and also every exercise in the several studies to which he is assigned.

EXAMINATIONS AND STANDING

Except in laboratory, seminary, and similar work, all classes are examined at the close of each term.

A student is not admitted to examination in a study in which his term work is unsatisfactory to the officer of instruction, or in which he has been absent from one-half of the class exercises.

The standing of students is indicated by letters as follows:

H is assigned to those whose work is of such excellence as to merit the designation of honor work.

C is assigned to those who have passed with credit.

P is assigned to those who have passed in the subject, but deserve no higher recognition.

F is assigned to those whose work during the term has been so unsatisfactory that, in the opinion of the instructor, they should not be allowed an examination, or to those whose examination has been so unsatisfactory that it should, in the opinion of the instructor, constitute a failure without regard to the work of the term, or to those who in the combined work of the term and the examination have failed to pass in the subject.

I is assigned to those whose work is incomplete, but satisfactory so far as done.

L may be assigned, in courses which are to be continued the following term, to those students whose work, while not an unequivocal failure, is

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of a low grade. This mark will be changed to either P or F as the student's subsequent work may determine.

Abs is assigned to those who are absent from examination, unless *F* has already been assigned.

Unless a student's absence from examination is excused by the Committee on Absences, the mark *Abs* will be changed to *F*.

A student who receives the mark *F* must pursue the subject again with a succeeding class, or if the instructor allows, under a tutor appointed by the head of the department; or, if the failure is in an elective course, he may take as a substitute some other course approved by the Committee on Admission to Advanced Standing.

Examinations other than those regularly appointed are not held except in case of (1) candidates for advanced standing whose examinations are authorized by the Committee on Admission to Advanced Standing, (2) students whose absences from the regular examinations have been excused by the Committee on Absences, (3) students who have been allowed to pursue, under appointed tutors, studies in which they have failed at a regular examination.

A student who wishes to take a special examination must obtain from the Registrar a written authorization, for which he shall pay a fee of two dollars, unless this is remitted by the President or the Dean, and must then arrange with the officer of instruction for the examination. In case of failure the authorization must be signed by the tutor, in case of absence, by the chairman of the Committee on Absences.

A student who at the close of a term has failed in three or more studies, counting for more than eight hours of work a week, cannot be again registered without special action of the Faculty.

Term Honors in any department are awarded to those who receive the mark *H* in a given term.

Final Honors in any department are awarded at the completion of the studies leading to a baccalaureate degree to those who have secured (1) term honors in the department in courses aggregating eighteen or more term hours, (2) a mark of *C* or *H* in eighty-five per cent. of all their courses of study. In any department, however, certain specified courses may not be included in those counted for final honors. The names of all students awarded Final Honors are printed in the Commencement Program and in the Annual Catalogue.

A record is kept of the attendance of every student of the University, and of his proficiency in his several studies. The standing of every undergraduate student is determined at the close of each term. A report is sent to the parent or guardian of every undergraduate student containing the record of all absences from required exercises, indicating his standing in each of his studies for the term, and announcing his deficiency in any study or studies if such deficiency exists.

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Expenses

UNIVERSITY DUES

Upon registration every student is required to present a guarantee covering all his college expenses, signed by his parent or guardian, or some other responsible person.

Term bills are due at the beginning of each term, and must be paid or their payment secured on presentation.

THE DUES OF EVERY UNDERGRADUATE CANDIDATE FOR A DEGREE are as follows:

Tuition, $35 a term; $105 a year.

General incidentals, $16 a term; $48 a year.

The incidental expenses are for the printing of programs, examination papers, and the like, the use of the library and the gymnasium, heat for these buildings and for the dormitories and recitation rooms, and the wages of servants to care for the same.

Every undergraduate candidate for a degree pays, upon matriculation, a fee of $5.

Every member of the Senior class pays, upon graduation, a fee of $8 for his diploma and other extra expenses connected with graduation.

For laboratory dues, see next page.

Students leaving college before the middle of a term, unless for misconduct or failure in scholarship, pay in tuition, incidentals and laboratory fees (exclusive of breakage, which is charged at cost) half the usual term dues. Students leaving college on account of misconduct or failure in scholarship receive no reduction.

Students taking the first degree in less than four years of regular work pay an additional fee of $25.

SPECIAL STUDENTS in the University pay, as a rule, full tuition and incidentals, but the charge is proportionately less when students are admitted to courses amounting to less than fifteen hours of class attendance a week.

THE FEES FOR GRADUATE STUDENTS in residence are:

Tuition, $50 a term; $150 a year.

Examination for the degree of MASTER OF ARTS, $15.

Examination for the degree of DOCTOR OF PHILOSOPHY, $25.

For laboratory dues, see next page.

Candidates for advanced degrees who are taking less than the regular amount of work, and special graduate students, pay in proportion to the number of hours taken.

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Students taking the second degree in less than five years of regular work pay an additional fee of $25.

A candidate in residence for the degree of MASTER OF ARTS who has paid full tuition for one year may, if necessary to the attainment of his degree, continue his studies for one year more without additional charge.

A candidate in residence for the degree of MASTER OF ARTS who, without remitting his studies, becomes a candidate for the degree of DOCTOR OF PHILOSOPHY is credited with whatever tuition he has already paid, in case his previous work is allowed to count toward the higher degree.

A candidate for the degree of DOCTOR OF PHILOSOPHY who has paid full tuition for two years may without additional charge continue his studies for two years more if necessary to the attainment of his degree.

The fees for a non-resident candidate for the degree of MASTER OF ARTS are:

Registration fee, $25.

Tuition, $10 a term, $30 a year.

Examination fee, $15.

For laboratory dues, see below.

A non-resident candidate is entitled,upon payment of the above fees, to pursue one three-hour course at the University. For each additional course a proportional fee is charged.

A non-resident candidate who has paid tuition for two years may, if necessary to the attainment of his degree, continue his studies for one year more without additional charge, except for work taken in class-room as stated in the preceding paragraph.

Graduate students not candidates for a degree pay at the same rates as special students.

SPECIAL LABORATORY FEES are charged as follows:

Students in Chemistry who take courses 1, 2, or 3 are charged $3 a term in addition to the regular charges for tuition.

Students who take advanced courses in Chemistry are charged $5 a term for a three-hour course and $10 for a six-hour course in addition to the regular charges for tuition.

Graduate students pay the same laboratory fees as undergraduate students.

The above fees cover the cost of ordinary chemicals, but students are charged extra for breakage and for special chemicals.

Students who take courses in the Physical Laboratory pay $5 a term for a three-hour course (six hours of attendance).

Students who take Shop-Work pay $5 a term for a three-hour course (six hours of attendance).

Students in Botany pay $3 a term extra.

The charge for a laboratory course in Comparative Anatomy is usually about $5.

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ESTIMATE OF ANNUAL EXPENSES

The following is an approximate estimate of the annual expenses of a student occupying (with a room-mate) a dormitory room, not including outlay for clothes and travelling or other strictly personal expenses.

	Medium	Maximum
Tuition	$105 00	$105 00
Incidentals	46 00	46 00
Room rent, including heat and service	60 00	212 50
Board (40 weeks)	150 00	280 00
Books and laboratory expenses	30 00	75 00
Total	$391 00	$718 50

Matriculation fee (first year), $5.
Graduation fee (fourth year), $8.

Board is not furnished by the University; but the BROWN UNIVERSITY CO-OPERATIVE REFECTORY, organized and controlled by students, furnishes its shareholders with board at cost. At present the price is $3.75 a week.

Students needing to increase their incomes through their own exertions find in the city numerous opportunities for doing so, by giving private instruction, by teaching in evening schools, and by other occupations not inconsistent with their college duties.

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Dormitory Accommodations

In the College Dormitories there are in all one hundred and forty-six single rooms and thirty-four suites.

The rooms in Hope College, University Hall, Slater Hall, and the College Street House are rented unfurnished. Those in Maxcy Hall contain all necessary furniture, occupants providing nothing except bed-linen and towels.

The prices given in the following tables include rent, heat, and service for the college year. In the College Street House lighting is included. In Slater Hall, University Hall, Hope College, Maxcy Hall, and Caswell Hall there are meters for each room and the occupants are charged for the amount used each term.

Caswell Hall, the new dormitory is situated on the southeast corner of Lincoln Field fronting on Thayer street. On the first three floors of the north and south divisions are suites provided with private baths, etc.; the rest of the building contains single rooms. All the rooms are furnished by the University. Further particulars can be obtained by addressing the Registrar.

Each student renting a room must sign a contract therefor in the form given below, on which surety may be demanded, binding him to pay or see paid the rent of the room through the entire year. Where two students rent a room together, each must sign a contract for half the room expenses. This obligation is not impaired by the student's removal from the University, whatever the cause of such removal.

The following is a contract between Brown University, party of the first part, and the undersigned, party of the second part. I hereby engage room No. in ; the same not to be occupied by any other person without consent of the party of the first part, and I bind myself to pay or cause to be paid to the Registrar of Brown University the entire rent, including heat and service, amounting to $ for the college year beginning September, 190 .

It is a part of this agreement that I shall be held responsible for all damage or defacement of such room or its furniture, ordinary wear excepted; also that disuse of the room by me on account of illness, or in case registration is refused me owing to low standing or bad conduct, does not impair the obligation of this contract.

Signed. .....

This day of 190 .

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Students who desire to retain the rooms rented by them during the present year may do so by signing new contracts for the coming year. These contracts must be filed with the Registrar before 4 P. M. on May 12th, 1905.

All rooms not signed for on the above date will be disposed of at a drawing on May 26th at 4.30 P. M. Men intending to enter college can arrange to be represented at the drawing by notifying the Registrar.

Not more than two students are allowed regularly to occupy a room or suite. When the University holds full contracts for a room, the tenant or tenants may admit to the regular use of the room in the daytime one or two students, but not more than two. The names of any such sub-tenants must be reported to the Registrar as soon as the arrangement for sub-tenancy is made. For each sub-tenant the University makes an extra charge of one dollar a term for service. This sum is paid to the University by the tenant in chief if there is but one; if there are two each pays half.

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The following conspectus shows the rent and location of each dormitory room.

Hope College

No.	Division	Floor	Windows Face	Bedrooms	Rent
1	South	1	E. & S.		$126
2	"	"	W. & S.		132
3	"	"	W.		126
4	"	"	E.		123
5	"	2	E. & S.		126
6	"	"	W. & S.		132
7	"	"	W.		126
8	"	"	E.		123
9	"	3	E. & S.		117
10	"	"	W. & S.		123
11	"	"	W.		117
12	"	"	E.		111
13	"	4	E. & S.		111
14	"	"	W. & S.		117
15	"	"	W.		111
16	"	"	E.		108
17	Middle	1	E.		123
18	"	"	W.		126
19	"	"	W.		126
20	"	"	E.		123
21	"	2	E.		123
22	"	"	W.		126
23	"	"	W.		126
24	"	"	E.		123
25	"	3	E.		111
26	"	"	W.		117
27	"	"	W.		117
28	"	"	E.		111
29	"	4	E.		108
30	"	"	W.		111
31	"	"	W.		111
32	"	"	E.		108
33	North	1	E.		123
34	"	"	W.		126
35	"	"	W.		138
36	"	"	E.		138
37	"	2	E.		123
38	"	"	W.		126
39	"	"	E. & N.		138
40	"	"	E. & N.		138
41	"	3	W.		111
42	"	"	W.		117
43	"	"	W. & N.		126
44	"	"	E. & N.		126
45	"	4	E.		108
46	"	"	W.		111
47	"	"	W. & N.		117
48	"	"	E. & N.		117

There are no separate bedrooms, but Nos. 1 and 2, 5 and 6, 9 and 10, 35 and 36, 39 and 40, 43 and 44, can be used either as suites or as single rooms.

University Hall

No.	Division	Floor	Windows Face	Bedrooms	Rent
4	South	1	W.	None	$130
10	"	2	S. & W.	2	250
12	"	"	W.	None	115
13	"	"	W.	"	115
16	"	"	E.	"	100
17	"	"	E.	"	106
18	"	"	E. & S.	"	133
19	"	3	S. & W.	2	240
21	"	"	W.	None	112
22	"	"	W.	"	112
25	"	"	E.	"	100
26	"	"	E.	"	100
27	"	"	E. & S.	"	121
28	"	4	S. & W.	2	220
30	"	"	W.	None	100
31	"	"	W.	"	100
32	"	"	E.	"	115
33	"	"	E.	"	97
34	"	"	E. & S.	"	121
36	North	1	W.	"	130
38	"	"	E.	"	130
40	"	2	W.	"	115
41	"	"	W.	"	115
43	"	"	W. & N.	2	250
44	"	"	E. & N.	None	121
45	"	"	E.	"	106
46	"	"	E.	"	106
47	"	3	W.	"	106
48	"	"	W.	"	106
50	"	"	W. & N.	2	240
51	"	"	E. & N.	None	115
52	"	"	E.	"	100
53	"	"	E.	"	100
54	"	4	W.	"	100
55	"	"	W.	"	100
57	"	"	W. & N.	2	210
58	"	"	E. & N.	None	115
59	"	"	E.	"	97
60	"	"	E.	"	97

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Maxcy Hall

No.	Floor	Windows Face	Rent
201	2	E	$140
202	"	"	140
203	"	E. & S.	140
204	"	W. & S.	135
205	"	W.	135
206	"	"	135
207	"	"	135
208	"	"	135
209	"	W. & N.	135
210	"	E. & N.	140
211	"	E.	140
212	"	"	140
313	3	"	140
314	"	"	140
315	"	E. & S.	140
316	"	W. & S.	135
317	"	W.	135
318	"	"	135
319	"	"	135
320	"	"	135
321	"	W. & N.	135
322	"	E. & N.	140
323	"	E.	140
324	"	"	140
425	4	"	140
426	"	"	140
427	"	E. & S.	140
428	"	W. & S.	135
429	"	W.	135
430	"	"	135
431	"	"	135
432	"	"	135
433	"	W. & N.	135
434	"	E. & N.	140
435	"	E.	140
436	"	"	140

College St. House.

1	2	E.	100
2	"	W. & N.	125
3	"	E. & S.	150
4	"	S. & W.	140
5	"	S.	100

Slater Hall

No.	Division	Floor	Windows Face	Bedrooms	Rent
1	South	1	E. S. & W.	2	$260.00
2	"	"	E. & W.	1	200.00
3	"	2	E. S. & W.	2	260.00
4	"	"	E. & W.	2	245.00
5	"	3	E. S. & W.	2	250.00
6	"	"	E. & W.	2	245.00
7	"	4	E. S & W..	1	175.00
8, 9	"	"	W.	1	194.00
10	North	1	E. & W.	2	269.50
11	"	"	E. W. & N.	2	269.50
12	"	2	E. & W.	2	269.50
14	"	"	W. N. E.	2	286.00
15	"	3	W. & E.	2	264.00
17	"	"	W. N E.	2	275.00
18, 19	"	4	E. & W.	1	206.80
20	"	"	W. N. E.	1	176.00

Directory to the Dormitories

College Street House, Rooms 1 to 5.
Hope College, South Division, Rooms 1 to 16.
Hope College, Middle Division, Rooms 17 to 32.
Hope College, North Division, Rooms 33 to 48.
Maxcy Hall, Rooms 201 to 436.
Slater Hall, South Division, Rooms 1to 9.
Slater Hall, North Division, Rooms 10 to 20.
University Hall, South Division, Rooms 1 to 34.
University Hall, North Division, Rooms 35 to 61.
Caswell Hall, North Division, Rooms 1 to 10.
Caswell Hall, Middle Division, Rooms 11 to 26.
Caswell Hall, South Division, Rooms 27 to 36.

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CASWELL HALL.

No.	Division	Floor	Windows Face	Bedrooms	Rent
1	North ...	1	E. N. & W.	1	$425
2	"	"	E. & W.	1	400
3	"	2	E. N. & W.	2	425
4	"	"	E. & W.	2	400
5	"	3	E. N. & W.	2	425
6	"	"	E. & W.	2	400
7	"	4	E. & N.	None	195
8	"	"	W. & N.	"	195
9	"	"	W.	"	165
10	"	"	E.	"	165
11	Middle ..	1	E.	"	175
12	" ..	"	W.	"	175
13	" ..	"	W.	"	175
14	" ..	"	E.	"	175
15	" ..	2	"	"	185
16	" ..	2	W.	"	185
17	" ..	"	"	"	185
18	" ..	"	E.	"	185
19	" .	3	"	"	185
20	" ..	"	W.	"	185
21	" ..	"	"	"	185
22	" ..	"	"	"	185
23	" ..	4	E.	"	165
24	" ..	"	W.	"	165
25	" ..	"	"	"	165
26	" ..	"	E.	"	165
27	South ..	1	E. & W.	1	400
28	"	1	E. S. & W.	1	425
29	" ..	2	E. & W.	2	400
30	" ..	"	E. S. & W.	2	425
31	" ..	3	E. & W.	2	400
32	" ..	"	E. S. & W.	2	425
33	" ..	4	E.	None	165
34	" ..	"	W.	"	165
35	" ..	"	W. & S.	"	195
36	" ..	"	E. & S.	"	195

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Financial Aid to Students

The aid which Brown University is able to offer students of limited means is granted under three conditions: (1) the recipient must be a candidate for a degree, having been fully admitted to the Freshman class or to advanced standing ; (2) the recipient must be of good moral character and maintain a creditable standing in his studies; the aid is withdrawn if the student is placed under college discipline or fails to maintain good scholarship; an average of *C* on the marking system now in use is expected; (3) the recipient must be in need of the financial assistance rendered.

The administration of the scholarship system is in the hands of a Committee of the Faculty, annually appointed by the Corporation for that purpose. The Dean of the University is the executive of the Committee. He is also charged with the administration of the Service system.

Applications for aid for a given academic year should be filed with the Dean before May 1st of the preceding year. Action upon all applications is taken by the Committee before July 1st.

The aid rendered is of three kinds: (1) Loans; (2) Fellowship, scholarship, and aid funds; (3) Work for which wages are paid.

A. LOAN FUNDS

The University has two funds available for this purpose:

I. The Alumni Loan Fund, now amounting to about $4,300. This Fund was established by the Alumni Association at the Commencement of 1900 by a vote transferring to the Treasurer of the University the fund formerly known as the Brown Loyalty Fund, to be used as a Loan Fund for students. The principal of this fund is loaned at interest, to be repaid as agreed upon in each instance.

II. A fund of several hundred dollars, which is loaned in small amounts without interest, for short periods, to students unexpectedly needing temporary assistance.

B. FELLOWSHIP, SCHOLARSHIP, AND AID FUNDS

GRAND ARMY OF THE REPUBLIC FELLOWSHIP

In 1891 the Grand Army of the Republic, Department of Rhode Island, gave to Brown University the sum of ten thousand dollars, to be forever known as the Grand Army of the Republic Fellowship Fund. Only the

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income of the Fund can be used. This income is for the aid of a graduate of Brown University, of acknowledged excellence in scholarship and character, who before accepting this fellowship must be enrolled as a candidate for the degree of Doctor of Philosophy, unless he has already received that degree, and who will reside at Brown University and devote his entire time to the pursuit of advanced liberal study. The intention is that the income for any year shall all go to the same person, except in case of his death, or his resignation or forfeiture of the fellowship, when a successor may be appointed for the remainder of the year. Holders of the fellowship are appointed by the President of the University, subject to the approval of the Board of Fellows; but the descendants of Union Veterans of the Civil War of 1861–65 are always to be preferred when the other qualifications of candidates are equal. No consideration touching the political or religious preferences of candidates can ever enter into the appointments. Appointments to the fellowship are regularly made for one year, but incumbents of special diligence or ability may be reappointed. The President is authorized to make for the reception and use of the income from this Fund such other conditions, not inconsistent with the above, as he may from time to time deem wise and proper. Applications for this fellowship must be made in writing on blanks furnished by the Dean of the Graduate Department, and must be in the hands of the President not later than the fifteenth of May. The Grand Army of the Republic Fellow for 1904–05 is

ARTHUR UPHAM POPE, A. B.

PHILADELPHIA ALUMNI FELLOWSHIP

This is a Fund of ten thousand dollars, which the Philadelphia Alumni Association of Brown University will soon render available. Its general purpose will be to assist graduate students of special ability in pursuing advanced studies at the University.

TEACHING FELLOWSHIPS

In addition to the foregoing, a number of Teaching Fellowships have been established, information regarding which will be furnished by the President.

FUNDED SCHOLARSHIPS

These are funds, presented to the University at various times, the incomes of which are awarded annually according to the conditions attaching to each fund. The scholarships established when the rate of interest was higher than at present, and the cost of education less, were each of $1,000.

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There are now seventy-six scholarships of this amount, each with a designated name and yielding the beneficiary $45 annually; with the exceptions indicated, they bear the names of their founders.

The Eleven Nicholas Brown Scholarships.

The Four University Scholarships.

The President's (Sears) Scholarship.

The Six Alva Woods Scholarships.

The James H. Duncan Scholarship.

The Isaac Davis Scholarship.

The Arnold Whipple Scholarship, founded by Mrs. Arnold Whipple.

The Ephraim Wheaton Scholarship, founded by James Wheaton.

The Joseph Brown Scholarship, founded by Mrs. E. B. Rogers.

The Gardner Colby Scholarship.

The Crocker Scholarship, founded by Robert H. Ives and Thomas P. Ives, trustees.

The Clark Scholarship, also founded by the Messrs. Ives.

The George K. and H. A. Pevear Scholarship.

The Joseph C. Hartshorn Scholarship I.

The Rogers High School Scholarship, founded by William Sanford Rogers.

The James Wheaton Scholarship.

The Charles Thurber Scholarship.

The Pardon Miller Scholarship, founded by Mrs. Ann E. Miller.

The Hezekiah S. Chase Scholarship.

The William Bucknell Scholarship.

The Austin Merrick Scholarship, founded by Mrs. Olive E. Merrick.

The Horatio N. Slater Scholarship.

The Earl P. Mason Scholarship.

The Newport Scholarship, founded by William Sanford Rogers.

The Alexis Caswell Scholarship.

The Three (Henry) Jackson Scholarships.

The Mumford Scholarship, founded by Mrs. Louisa D. Mumford.

The Albert Day Scholarship.

The Henry P. Kent Scholarship.

The Romeo Elton Scholarship.

The Five Annie E. Waters Scholarships.

The Lewis Fairbrother Scholarship, founded by Mrs. Lewis Fairbrother.

The George Lawton Scholarship.

The John P. Crozer Scholarship, founded by Mrs. Margaret Bucknell.

The James Y. Smith Scholarship.

The Two S. S. Bradford Scholarships.

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THE FRANCIS R. ARNOLD SCHOLARSHIP.

THE CORNELIA E. GREEN SCHOLARSHIP.

THE HENRY CLIFFORD KNIGHT SCHOLARSHIP, founded by Miss Amelia S. Knight, in memory of her brother, a member of the class of 1875.

THE THURSTON SCHOLARSHIP, founded by the Hon. Benjamin F. Thurston, LL.D., of the class of 1849.

THE RUFUS BABCOCK SCHOLARSHIP, founded by Mrs. Caroline Vassar Babcock Jones, in memory of her father, the Rev. Rufus Babcock, D.D., of the class of 1821.

THE JAMES FLETCHER BLACKINTON SCHOLARSHIP, founded by Mrs. Mary D. Blackinton, in honor of her husband, James Fletcher Blackinton, of the class of 1847.

THE FIVE WILLIAM A. WHITE SCHOLARSHIPS, founded by Mrs. Abby S. A. White, in honor of her husband, William A. White, of the class of 1857.

THE RICHARDS SCHOLARSHIP, founded by the Rev. William Coolidge Richards, of the class of 1837.

THE SAMUEL WHITE DUNCAN SCHOLARSHIP, founded by Mrs. Mary Duncan Harris.

THE S. DRYDEN PHELPS SCHOLARSHIP, founded by the Rev. S. Dryden Phelps, D. D., of the class of 1844, the income to be given each year to some student who is preparing for the Baptist ministry.

THE BENJAMIN HUTCHINSON JUDAH SCHOLARSHIP.

The following scholarships are of larger amounts:

THE TWO GEORGE J. SHERMAN SCHOLARSHIPS, paid from a fund of two thousand, five hundred and sixty-five dollars.

THE BARTLETT SCHOLARSHIP, of four thousand dollars, founded by Mrs. Elizabeth Slater Bartlett; the income to be "devoted to the support of one or more students needing pecuniary aid, and giving promise, by studious aim and by character and scholarship, of rising to distinction and usefuness."

THE GLOVER SCHOLARSHIP, of five thousand dollars, founded by Henry R. Glover, "in memory of his father, Samuel Glover, of the class of 1808, and of his brother, Samuel Glover, Jr., of the class of 1839."

THE REBECCA A. WHEELER SCHOLARSHIP, of fifteen hundred and seventy one dollars, founded by the lady whose name it bears; the income to assist some worthy student, preferably a candidate for the Baptist ministry.

THE SCHOLARSHIP OF THE CLASS OF 1838, of thirty-eight hundred dollars.

THE JOSEPH CHARLES HARTSHORN SCHOLARSHIP II, of two thousand dollars.

THE BANIGAN SCHOLARSHIPS I AND II, of three thousand dollars each, founded by the late Joseph Banigan of Providence; the income as far as necessary to be used each year to defray the tuition of two students of the University.

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THE GEORGE IDE CHACE SCHOLARSHIP, of five thousand dollars, founded by Professor George Ide Chace, the income to be assigned each year by the Faculty to some member of the Senior class needing the money, who shows "marked ability, exemplary industry, generous aspirations, and irreproachable character."

THE ABBY WHEATON CHACE SCHOLARSHIP, of four thousand dollars, also founded by Professor George Ide Chace; the income to be assigned yearly by the Faculty to some member of the Junior class needing the money, who shows "marked ability, exemplary industry, generous aspirations, and irreproachable character."

If either in the Senior or in the Junior class there chances to be no person fulfilling the requirements of either of these two scholarships, the proceeds of the scholarship for that year must, under the proper direction, be appropriated to the purchase of books for the library of the University.

THE JOHN L. LINCOLN SCHOLARSHIP, of twenty-five hundred dollars, and the TRUMAN BECKWITH SCHOLARSHIP of twenty-five hundred dollars, founded by the late Abby G. Beckwith.

THE THAYER SCHOLARSHIP, founded by Edward C. Thayer, in honor of his father, Joseph Thayer, of the class of 1815, the income to be for the education of any young man or woman a resident of Uxbridge, Mass., endorsed by the selectmen and superintendent of schools there, needing pecuniary aid and giving promise by character and scholarship of a life of usefulness. If there is no applicant from Uxbridge, the income may go to any applicant from Massachusetts who fulfills the conditions.

THE WALTER G. WEBSTER SCHOLARSHIPS, founded by the Rev. Walter G. Webster, of the class of 1878; the income to go each year to two young men, members of the Freshman class, holding the full diploma of the Classical High School of the city of Providence and duly matriculated for the degree of Bachelor of Arts; "the nomination to rest with the Principal of said school, and to be made on the basis of character and scholarship, due regard being had to the need of such assistance."

THE THREE S. W. MARSTON SCHOLARSHIPS, founded in the name of his father by Mr. Edgar L. Marston of New York. Each of these scholarships yields two hundred dollars a year. The first scholarship is open to any graduate of LaGrange College who may be recommended by the President of that institution. The second is open to any graduate of William Jewell College under similar conditions. The third is open to any graduate of the Central High School in St. Louis, Mo., subject to the recommendation of the Principal.

The following scholarships have been in part established:

THE TWO GEORGE HALE BACON MEMORIAL SCHOLARSHIPS, paying each recipient $150 a year, founded by George A. Bacon in the name of his father. The awards are to be made only to young men in need of assistance and to be given solely on grounds of scholarship and personal character, no other consideration to receive any weight whatever.

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AID FUNDS

These are two in number, and their income is divided into scholarships of varying amounts, which are awarded under the general conditions applicable to all scholarships:

The Aid Fund, established by friends of the University in 1868, and now amounting to $9,300;

The Daniel W. Lyman Fund for students, established by the late Daniel W. Lyman, and now amounting to $72,250.

UNIVERSITY SCHOLARSHIPS

In addition to the income of the Scholarship and Aid Funds, the Advisory and Executive Committee of the Corporation appropriates each year a large sum of money from the Common Fund of the University for the assistance of students. This amount at present exceeds $15,000, and is used for establishing of University Scholarships, which are of three grades:

(1) A small number yielding each $50 a term or $150 a year, paying the whole college bill for tuition and incidentals, awarded to a few Juniors and Seniors of especially high scholarship.

(2) A number yielding each $35 a term or $105 a year.

(3) A number yielding each $20 a term or $60 a year, used in part to supplement the smaller endowed scholarships, and also for those needing relatively less assistance.

The University Scholarships are taken directly from the college treasury and therefore use funds which would otherwise be available for other college purposes. It is expected, therefore, that the holders of them will regard them as in a certain sense a loan, and will at some subsequent time after graduation return to the treasury the amount awarded, to be used for the increase of the permanent scholarship funds, or that they will in some other way contribute to the endowment of the University.

C. SERVICE

The University is able to give employment to a number of students as monitors, assistants in the library and laboratories, members of the choir, and clerks in the Registrar's office. Not more than two hours a day are required of any student, except in specified cases, and the compensation is made at definite rates. At present about $6,000 a year is appropriated for service, and employment is given to about eighty students, who receive each amounts varying from $20 to $40 a term. The University also coöperates with the Young Men's Christian Association in efforts to secure employment for students from business houses and residents of the city.

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Medical Care

Any student suffering from illness is expected to go at once to the office of the University Physician, Dr. George W. Gardner, or, if necessary, to request Dr. Gardner to come to his room. When called to see students, the duty of the University Physician is to make one call for diagnosis and prescription at the expense of the University. For continued attendance, students will make their own arrangements with Dr. Gardner or some other physician. Free attendance in the Rhode Island Hospital is secured to officers and students of the University by the following provisions:

The University owns two free beds in the Hospital, to the occupancy of which the President of the University has the right of appointment. The first of these, THE CHARLES SMITH BRADLEY FREE BED, was established in 1872 by a payment to the hospital of four thousand dollars by the late Judge Bradley, a member of the Board of Fellows, thereby endowing a free bed "under the control of the President of Brown University for the time being, for the benefit of any officer or student of that institution who may have occasion for it." The second, THE GEORGE IDE CHACE FREE BED, was established by a payment to the hospital of a like sum by the late Professor George Ide Chace; this foundation gives to the President of the University "the right to nominate and send to said hospital a patient, being a proper subject for treatment in said hospital, according to the rules of the institution to occupy a bed in said hospital, and to receive the usual care, and medical, surgical and other attendance, and medicines and board, free of charge."

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Social and Religious Life

Chapel exercises are held in Sayles Hall every morning on week days at nine o'clock. At the same hour the Women's College has its chapel service in Pembroke Hall. The President usually conducts the exercises at Sayles Hall, and the Dean of the Women's College conducts the service at Pembroke Hall. Attendance is required of undergraduate students.

During the winter a series of vesper services is held in Sayles Hall on Wednesday afternoons at five o'clock, open both to students and to the public. The preachers last year were as follows: Rev. George H. Ferris, A. M., of New Haven, Conn.; Rev. Alexander McKenzie, D. D., of Cambridge, Mass.; Rev. William S. Rainsford, D. D., of New York City; Professor Gerald Birney Smith, A. M., of the University of Chicago; Rev. Donald Sage MacKay, D. D., of New York City; Rev. Charles E. Jefferson, D. D., of New York City; Rev. George Hodges, D. D., dean of the Episcopal Theological School, Cambridge, Mass., and President W. H. P. Faunce, D. D.

The Brown Union has been organized to promote the social and religious life of the University. Its membership includes students and graduates. It has its home in Rockefeller Hall, which was built especially for its occupancy, and the immediate direction of which is vested in a Board of Management, consisting of the president of the Union and four members appointed by the Advisory and Executive Committee of the Corporation. The Hall provides ample accommodations for the Brown University Young Men's Christian Association, which conducts voluntary Bible classes for students, and also maintains an employment bureau and supports philanthropic work in the city. Rooms are also provided for other religious, literary, and social organizations of the students.

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Student Advisers

Under the system of student advisers instituted in the University, every member of the Freshman class is assigned to some member of the Faculty who serves throughout the year as a special counsellor to that student. In the assignment of students to advisers the preferences of both are consulted when practicable. The system is designed to further personal intercourse between student and instructor, and to afford the student means of obtaining unofficial advice on any matter connected with his college life. The student is at liberty at any time to seek the counsel of his adviser.

Teachers' Bureau

The Brown University Teacher's Bureau has been established for the purpose of communicating with institutions desiring to employ graduates of Brown who are qualified to teach. To this end it solicits correspondence with those who are seeking well equipped teachers, and invites inspection of the list of such teachers now registered. It advises graduates of Brown who wish its assistance to register at once, and, if possible, to meet the Secretary in a personal interview. It offers to undergraduates information as to subjects in which there is a demand for teachers, as to positions commonly open to recent graduates, and as to the preparation usually required. No charge for the services of the Bureau is made either to students or to schools.

It is the further purpose of the Bureau to foster co-operation between the University and all graduates engaged in the work of education. As far as possible an accurate register of the addresses and the positions of all such graduates is kept.

The office of the Secretary is in the Administration Building, room 10.

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Libraries, Laboratories, and Museums

LIBRARIES

The libraries of the University consist of about one hundred and fifty thousand volumes. They comprise the main library, which occupies the Library Building, the gift of John Carter Brown of the class of 1816; the John Carter Brown Library, with its own building, recently given to the University; and the department libraries, which are placed in connection with the various laboratories and seminary rooms.

The Main Library is constantly increased with reference to the different courses of study, while at the same time there is kept in view the development of a library of general culture for the use of the students. On the first two floors are arranged the books most in use, the entire west wing of the library on the first floor being given up to History, the north wing to Periodicals, Fine Arts and Social Science, and the east wing to Literature. The second floor is devoted to Philosophy, Theology, Geography, Antiquities, Education, Law, the Sciences, the Arts, Philology, and, lastly, the Wheaton Collection of International Law, given by William V. Kellen, of the class of 1872, in honor of Henry Wheaton, of the class of 1802. In a separate room on this floor is shelved the Harris Collection of American Poetry. This collection, founded by Albert G. Greene and extended by C. Fiske Harris, was bequeathed to the University by the Hon. Henry B. Anthony. It numbers over six thousand bound volumes, being perhaps the largest collection in the world devoted to the subject. A fund, given by Samuel C. Eastman of the class of 1857, in memory of the founder of the collection, Albert G. Greene, of the class of 1820, provides for its regular increase. On the third floor is the special room devoted to the Rider Collection of Rhode Island History. This collection, formed by Sidney S. Rider and presented to the University by Marsden J. Perry, has no rival in extent and rarity of manuscript and printed material bearing on the history of the state. On this floor are kept certain other collections, besides many thousand volumes of works infrequently consulted, arranged according to the classification adopted for the lower floors. To all but the two special collections the students have free access.

On the first floor, upon tables in the central reference room, are kept the latest numbers of the standard periodicals, American and foreign. In the wall cases are books of reference; various shelves, particularly those on the central table, are devoted to books reserved by the departments. In this room are the Select Library of attractive reading,

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the Loan Desk, where books are charged and returned, and the desk of the Reference Librarian, whose duty is to advise and assist students in their use of the books whether for class work or for private reading and research.

The library funds amount to over seventy-seven thousand dollars. Of this sum ten thousand dollars constitutes the Gammell Fund for the purchase of books relating to the history of the United States; ten thousand dollars, the Olney Fund for the purchase of plants and botanical books; ten thousand dollars, the Diman Memorial Fund for the purchase of works on mediæval and modern history; and ten thousand dollars, the Banigan Fund for the purchase of books on mediæval and church history. The remainder includes several smaller special funds and the Library Fund proper.

The following persons are entitled to the use of the Library without expense: the members of the Corporation and Faculty; other college officers; graduates residing in the State of Rhode Island; donors to the funds of the University to the amount of five hundred dollars, residing in the State of Rhode Island; graduate and undergraduate students; and also other persons on whom the Corporation or the Library Committee may from time to time confer the privilege.

The Library is open during term time from 9 A. M. to 11 P. M. on week days, and from 2 to 11 P. M. on Sundays; during vacations from 10 A. M. to 4 P. M. on week days.

The JOHN CARTER BROWN LIBRARY, given to the University by the Trustees under the provisions of the will of the late John Nicholas Brown, A. M., of the class of 1885, is a collection of about 15,000 volumes relating to the history of North and South America during the colonial period. The larger part of the books, many of which are of great rarity and value, were printed before the year 1800, and contain the earliest published accounts of events connected with the history of the discovery, exploration, and colonization of the western hemisphere. This collection, well known for many years as the most valuable private library of Americana in existence, was begun by John Carter Brown of the class of 1816, and after his death was greatly enlarged by his widow and by his sons, the late John Nicholas and Harold Brown.

The John Carter Brown Library occupies a building erected for it at the southeastern corner of the middle campus. It is open daily from 9 A. M. until 5 P. M., and the books may be consulted by all properly qualified students or investigators, upon application to the Librarian. In the main hall of the building there are a number of exhibition cases in which are shown the rare books, engravings, and manuscripts belonging to the collection.

THE GERMANIC DEPARTMENT LIBRARY is contained in the two rooms of the department in Sayles Memorial Hall. It was purchased in Germany by the late Professor Williams in the name of the principal donor, the

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Hon. Hezekiah Conant. The library now contains over six thousand carefully selected volumes, including editions of all the important writers of German literature; a large collection of Germanic philology; the leading German literary and philological periodicals; many works upon German history, the history of German literature, and German law, art, palæography, and geography. The Library is especially rich in works of the Middle High German period, and in Goethe and Schiller literature. It possesses many works of art which illustrate the subjects taught—bronzes, framed engravings, and volumes of plates. The rooms are open from 9 A. M. to 12:30 P. M., from 2 to 6 P. M., and from 8 to 9:30 P. M.

THE CLASSICAL DEPARTMENT LIBRARY is contained in the room in Sayles Hall, occupied by the Albert Harkness Classical Seminary, named in honor of its founder, Professor Albert Harkness, Ph. D., LL. D. It consists of fifteen hundred volumes, purchased with funds contributed by friends of the University interested in classical studies. The most important collections of Greek and Roman authors, many of the best commentaries, reference books, and similar aids are to be found here. The seminary is made the centre for advanced study and research in the classical languages and literatures. Though primarily intended for graduates, the seminary is open to such of the undergraduates as are qualified to profit by its advantages. The room is open from 9 A. M. to 10 P. M.

THE ROMANCE DEPARTMENT LIBRARY is a collection of about one thousand volumes for the use of advanced students in the Romance languages. It is contained in a room in Sayles Hall. This room is open daily, and also on Tuesday, Wednesday, and Thursday evenings.

THE BIBLICAL DEPARTMENT LIBRARY consists of a reference collection of about one thousand volumes, provided for the use of students in the Biblical department. It is kept in Sayles Hall. It includes a valuable collection of Semitic books presented by Mr. Jacob Shartenberg of Pawtucket. A number of Semitic, Biblical, and general religious journals are kept on file. The room is open from 9 A. M. to 12 M., from 2 to 5 P. M. and from 7 to 9 P. M., except Wednesday and Saturday afternoons.

THE BIOLOGICAL DEPARTMENT LIBRARY is contained in the rooms of the department of Comparative Anatomy in Rhode Island Hall. It is a collection of more than twelve hundred volumes, to which additions are constantly made. More than forty current periodicals bearing upon the work of the department are regularly received. The rooms are open from 9 A. M. to 4 P. M.

THE EDUCATIONAL DEPARTMENT LIBRARY is contained in the seminary room of the department, in the Administration Building. The library contains over one thousand volumes, chiefly text-books of recent publication. The room is open to all students interested in education and to teachers and friends of education in the city and state.

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THE WOMEN'S COLLEGE LIBRARY and reading room occupy two rooms in Pembroke Hall. The library contains about two thousand volumes, all recently purchased, and has a complete card catalogue. The aim of the collection is to furnish a reference library of standard literature, with special regard to the courses offered, thus forming for students of the Women's College a convenient and valuable adjunct to the University Library.

Most of the other departments of the University have special collections of books for seminary and advanced laboratory work. The most important of these belong to the departments of Astronomy, Botany, Chemistry, Economics, Engineering, English, Mathematics, and Physics. There are also practically at the service of the students of the University the six collections of books named below. These comprise, with the University Library, about four hundred thousand volumes, exclusive of pamphlets and manuscripts.

THE PROVIDENCE PUBLIC LIBRARY welcomes all students of Brown University, upon the same conditions as other residents of the city, to use its carefully selected collection, which comprises more than 114,000 volumes. It is situated at the corner of Washington and Greene streets. It includes various special collections and departments. Its principal rooms are open regularly from 10 A. M. to 9 P. M.; on Sundays and legal holidays from 2 to 9 P. M. Among its special departments may be mentioned the Harris Collection on Slavery and the Cvil War, on the third floor; the Educational Study-room and the "Standard Library" of best literature, on the second floor; and the Reference Department on the ground floor, which is open until 10 P. M. About 600 periodicals, serials, and annuals (of which about 270 are the best known weeklies, monthlies, and quarterlies), are currently received. The Library of the Rhode Island Medical Society is on the third floor. The library staff will be glad to be consulted with respect to books in any of the departments of University study, and to prepare lists of references in connection with any of the special topics under consideration.

THE LIBRARY OF THE PROVIDENCE ATHENAEUM is a library of general literature. It numbers 66,000 volumes, and the reading room receives upwards of 200 papers and magazines, including New York, Boston, and Providence daily papers, and American, English, German, French, and Italian weeklies, magazines, and reviews. In bound sets of periodicals and in books on art this library is especially rich. Professors or teachers, non-residents of the city, may become annual subscribers on the payment of four dollars in advance, and any student of Brown University whose family does not reside in the city, or who may obtain the privilege from the board of directors, may become a subscriber for three months on the payment of one dollar. The annual subscription for residents is seven dollars and a half. The Athenæum is open during the college year from 9 A. M. to 10 P. M. on week days.

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THE LIBRARY OF THE RHODE ISLAND HISTORICAL SOCIETY is situated on Waterman street, next door to the University Library building. The library of the society comprises 20,000 bound volumes and 40,000 valuable unbound volumes and pamphlets. Through the courtesy of the Society the collection is made accessible, free of charge, to members of the University. It offers special facilities for thorough research not only in all subjects relating to the history of Rhode Island, but also in genealogy, local history, and general American history. Its library has recently been enriched by a special bequest of books on the English and American drama, and by a collection of works on early American travels and ethnology. The collection is open from 9 A. M. to 4 P. M. on week days.

THE LIBRARY OF THE RHODE ISLAND MEDICAL SOCIETY, which may be found in the Providence Public Library building, on Washington street, comprises 20,000 volumes and numerous pamphlets upon medical science, including biology, physiology, physiological psychology, hygiene, and other subjects the study of which is pursued in the University. About 175 medical periodicals are currently received. Arrangements are easily made whereby any student can, without cost, enjoy the privileges here offered. This collection is open daily, from 10 A. M. to 6 P. M.

THE STATE LAW LIBRARY, a collection of 27,000 volumes, may be consulted in the Providence County Court House, at the corner of Benefit and College streets, between the hours of 9 A. M. and 5 P. M. on week days. It is accessible to all students, and for certain lines of University study is invaluable.

THE STATE LIBRARY, located in the State House, is accessible to the public from 9 A. M. to 5 P. M.; on Saturdays from 9 A. M. to 12 M. This library contains a large collection of official documents of the United States and of the several states, as well as general works pertaining to history and political science.

LABORATORIES

THE LADD ASTRONOMICAL OBSERVATORY is equipped with a Saegmuller-Brashear equatorial of twelve inches aperture, which is supplied with a filar micrometer, spectroscope and other attachments; two transit instruments, one of which can be used as a zenith telescope; a chronograph; two astronomical clocks; several sextants and chronometers; recording meteorological apparatus; and various minor instruments. The equipment is available for illustrating the general courses in astronomy and for practical use in the applied courses open to undergraduates and graduates.

The Observatory furnishes constant time-signals to the Rhode Island Electric Protective Company, by which they are distributed to its patrons. Routine observations for determining clock errors, and for pressure, tem-

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perature, humidity, and precipitation are made throughout the year. Special observations are also made as opportunity offers.

THE PHYSICAL LABORATORY, in which all the courses of instruction offered by the department of Physics are conducted, is in Wilson Hall, which was specially designed and constructed for this purpose. Twelve laboratory rooms are available for the expermimental study of physics, each room being fitted for the investigation of a particular branch of the subject or for the arrangement of classes according to proficiency. Brick piers support instruments requiring great steadiness, and the magnetic rooms are as free as possible from iron and other disturbing influences. Several rooms on the ground floor are devoted to a laboratory for electrical engineering, and are well provided with machinery and instruments. Equipment for certain special investigations recently undertaken has been placed at the disposal of the department by friends of the University. Efforts have been made to develop the facilities for high-temperature and high-pressure work, in the directions specified in courses 22 and 23. The cabinets are well supplied with apparatus both experimental and demonstrative, and frequent additions are made as necessity requires. In all such cases new property is selected with a view to use in the students' laboratory as well as in the lecture-room, and to the exclusion of merely exhibitional apparatus. The department is in possession of a large assortment of historical and other photographs and lantern slides, as well as of cage models illustrating the propositions in pure and applied physics.

THE ANATOMICAL LABORATORIES are in Rhode Island Hall, and consist of private rooms for instruction, a laboratory for graduate students, a seminary room, a physiological laboratory, a laboratory for bacteriology and histology, a laboratory for neurology and embryology, and the large laboratory for elementary anatomy and the comparative anatomy of vertebrates and invertebrates. All the anatomical laboratories are equipped with reagents and apparatus. The very large collection of zoölogical material, the anatomical and histological preparations of the museum, the anatomical collection of the Rhode Island Medical Society, and rich material frequently contributed by the United States Fish Commission from the deep sea dredging excursions, are always accessible to the students. Abundant living material is also readily available, since the laboratory is situated near the salt water and within a few miles of two floating laboratories located on opposite sides of Narragansett Bay.

THE CHEMICAL LABORATORIES are in Rogers Hall, which was erected expressly for the department of chemistry.

The inorganic laboratory is supplied with work-tables and lockers furnishing accommodations for about two hundred and fifty students working by detachments. Adjacent are the balance room, and the furnace room.

The organic laboratory is fitted with work tables for about fifty students. Each table has arrangements for gas, high pressure water supply, etc.

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The room has excellent hoods, besides large and accessible shelf room for apparatus and supplies. The library of the chemical department is here.

THE BOTANICAL LABORATORY is in the basement of Maxcy Hall. The main lecture room and laboratory will accommodate thirty-seven students. A somewhat smaller room adjoining is used for a histological laboratory and will accommodate twelve students. Instruments and certain materials are provided. The Herbarium, on the same floor, is convenient for consultation and for systematic study of native and foreign plants.

THE PSYCHOLOGICAL LABORATORY occupies rooms in Wilson Hall. It possesses a considerable variety of apparatus for the study of sensations, the determination of discriminative sensibility, the measurement of the duration of mental processes, the detection of physiological accompaniments of changes in consciousness, the study of temperament, and other fields of research. This equipment is especially well adapted for the illustration and demonstration of the main results of experimental work in psychology. The department aims to make contributions to knowledge on this subject by original research; and the apparatus already possessed, and that which can be supplied by the University workshops or by purchase, together with what can be prepared in the laboratory itself to meet the demands of particular problems, offer good facilities for such work.

THE MECHANICAL ENGINEERING LABORATORIES, library, and drawing room are situated in the new Engineering Building. This building is 72 by 84 feet, three stories high, and is designed so that a later addition of nearly equal size may be made to provide for all the engineering departments. The first floor is used as an engineering laboratory. On the second floor are four large recitation rooms and a laboratory containing the lighter experimental apparatus. The third floor is used entirely for drafting.

The laboratory for testing the strength of materials contains a 400,000-pound Riehlé testing machine of special design for testing large specimens in tension, compression, and cross bending; a 50,000-pound Riehlé testing machine; a machine for testing full sized timber and steel beams; a 50,000-inch-pound Olsen torsion testing machine; a machine for testing by repeated stresses; a Riehlé cement testing machine; and the necessary auxiliary apparatus such as micrometers, extensometers, etc.

The steam engineering laboratory contains a cross-compound condensing Corliss engine, size 10 and 18 by 30, specially designed for experimental purposes, together with various smaller engines, steam pumps, injectors, and the necessary apparatus for testing the same. A boiler of 250 pounds working pressure, arranged for either natural or mechanical draft, has recently been installed, and the enlarged central heating plant of the University is used as a basis for numerous tests by the students.

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The laboratory of metallography is equipped with apparatus for investigating the nature and structure of alloys. In connection with the laboratory is a properly equipped photographic dark room. The apparatus includes polishing machines for preparing specimens, an excellent Leitz microscope with accessories, including photographic apparatus, a thermo-electric pyrometer and lantern apparatus.

The department is provided with necessary small apparatus such as indicators, tachometers, gauge tester, steam and fuel calorimeters, gas analysis apparatus, facilities for meter testing, etc. Models for the illustration of the various courses are constantly being made or acquired. The apparatus for the new laboratories is being selected with a view to the practical demonstration of fundamental principles of engineering, which, if thoroughly mastered, will enable the student to apply his knowledge to the varied and special cases that arise in the work of the engineer.

THE MECHANICAL ENGINEERING SHOPS are situated in Rogers Hall and are well equipped for purposes of instruction. The wood working shop is provided with large and small lathes, circular and band saws, buzz planer, vertical boring and mortising machines, and ample benches and bench tools. The metal working shop is provided with engine lathes of good sizes, hand lathes, planer, shaper, milling machines, large and small vertical drills, universal grinder, surface grinder, cutter and reamer grinder, drill grinder, power hack saw, and a small foot press. There is also a blacksmith's outfit for forming and dressing tools, and facilities for hardening and tempering. Power is furnished by two ten-horse-power electric motors.

THE MECHANICAL DRAWING ROOMS are on the top floor of the Engineering Building. These rooms are large and well lighted and accommodate two hundred and fifty students. About two hundred and twenty-five valuable models in wood and metal have been collected. Many of these are mechanical in nature and are extensively used in the courses. The department possesses a dark room, exposure frame, and washing tank, for preparing and developing blue-prints. Connected with the main drawing room is a library and reading room in which may be found such books of the University Library as relate to drawing and allied subjects, together with other books which are owned by the department. A limited number of sets of drawing instruments have been provided for the use of deserving students who would otherwise be unable to pursue desired courses in drawing.

THE DRAFTING ROOMS of the department of Civil Engineering are located on the second floor of the Engineering Building. These rooms have desks for about fifty students. Numerous large photographs of bridges and viaducts and models of harbor improvements hang on the walls and facilitate the instruction in design.

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MUSEUMS

THE MUSEUMS OF ZOÖLOGY AND ANTHROPOLOGY are in Rhode Island Hall, and are open to the public daily. Students desiring to use the collections for the purpose of study or investigation receive every encouragement, the aim being to make the museums not mere exhibition rooms, but places for work. The zoölogical and anatomical collections of the University form the Jenks Zoölogical Museum. The Museum of Anthropology contains a collection of articles of dress and rare implements from foreign countries, and a valuable collection of stone implements of aboriginal American races, including those of Rhode Island.

THE HERBARIUM, situated in Maxcy Hall, consists mainly of various collections which have been given or bequeathed to the University. Those of Colonel Olney, Mr. Bennett, Dr. Bailey, Miss Stout, and Mr. Brownell are the most prominent. The Olney collection is particularly rich in the genus *Carex*. The Stout collection consists mostly of ferns. In addition to these collections many specimens have been obtained by exchange, purchase, and small donations. The Olney, Bailey, and Stout collections are nearly all mounted; the remainder are mainly unmounted. These collections are merged in one general herbarium and deposited in cases. They were roughly estimated, a few years ago, to contain in all about 40,000 sheets, representing specimens from more than 60,000 localities. In 1902 Dr. Bailey's second herbarium was purchased by friends and presented to the University. This is now being arranged and mounted, and will ultimately be merged in the general collection. To these is added the nucleus of a collection of seeds.

The arrangement of orders and genera of the flowering plants is at present according to Bentham and Hooker's *Genera Plantarum;* of the ferns according to Hooker's *Synopsis Filicum;* of the mosses according to Eaton's list. All are soon to be arranged according to Engler and Prantl's *Natürliche Pflanzenfamilien.*

Many portraits of famous botanists hang on the walls of the Herbarium room. A portrait of Colonel Stephen T. Olney, the founder of the department, has been presented to the Herbarium by his niece, Mrs. F. H. Peckham.

THE MUSEUM OF FINE ARTS occupies the first floor of Manning Hall. It contains plaster casts of rare excellence, chiefly from works of classical sculpture, which are of great value in illustrating ancient history, biography and art. It also contains a few bronzes and oil paintings.

The portraits, of which the University possesses a large number of valuable specimens, are mostly hung in Sayles Memorial Hall. The collection receives accessions every year. It now includes portraits of the University's principal benefactors, of many of its former officers, and of many other distinguished persons, Americans and foreigners, the history of Rhode Island being especially well represented.

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Arrangements with Other Institutions

THE RHODE ISLAND SCHOOL OF DESIGN, which was incorporated in 1877 and opened in Providence in 1878, is an institution of large and rapidly increasing importance for the education of artisans and artists in the principles and processes of art, and for the general advancement of education in art by the exhibition of works of art and art studies, and by lectures on art. Its school buildings and museum are near the University grounds, and its collections are open daily to the public free of charge. Through its exhibitions there is opened to students an important means of culture.

The Corporation and Faculty of Brown University have agreed with the authorities of the Rhode Island School of Design upon a plan of coöption in accordance with which certain courses at this school will be open to students of Brown University, and will be counted towards a University degree. A description of these courses and a statement of the conditions under which they may be elected will be found in the lists of studies given under the Departments of Art and Drawing, on pages 64 and 81.

Students from the Rhode Island School of Design may be admitted to any classes in Brown University for which they are found to be prepared, and Brown University will give certain special courses for the benefit of classes from the Rhode Island School of Design.

THE NEWTON THEOLOGICAL INSTITUTION has entered into an agreement with Brown University whereby work done in the University, for which a mark of "C" is awarded, or upon which the student passes an examination satisfactory to the Newton Faculty, will be credited toward graduation in the Theological course as follows:

Hebrew 1-3, 16-18,	132 hours
Biblical Literature in English 1-6,	112 "
New Testament Language 1-6,	108 "
Public Speaking,	36 "
Total	388 hours

The whole number of prescribed hours in the Theological course at the Newton Theological Institution is 1,620.

THE AMERICAN SCHOOL OF CLASSICAL STUDIES AT ATHENS has had relations with Brown University ever since the foundation of the school in 1881. Professor Albert Harkness was a member of the first committee of five persons appointed by the Archæological Institute of America to establish

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this school for the benefit of graduates of American colleges desiring to pursue advanced classical studies in Greece. Until 1902 the privileges of the school were secured to graduates of Brown University by the payment of an annual contribution of $250, and this sum was obtained through subscriptions. In 1902 a number of the friends of the Uinversity, in recognition of the sixtieth anniversary of the graduation of Professor Harkness, united in contributing the sum of $5,555, which was paid to the Treasurer of the American School of Classical Studies at Athens to establish a fund to be known forever as "The Albert Harkness Fund for the benefit of Brown University." The privilege of free tuition in the School at Athens for all adequately prepared graduates of Brown University is henceforth secured by the establishment of this fund, and no further annual payments will be required. The superior opportunities offered to American college graduates by the School at Athens are too well known to need recounting; but any who may desire detailed information regarding the school can obtain it by applying to Professor William Carey Poland, a former Director of the school, and now a member of the Managing Committee.

THE SCHOOL COMMITTEE OF THE CITY OF PROVIDENCE, by a special agreement, appoints student-teachers to places in the Providence High Schools. Appointments are made from members of the Senior class who have pursued undergraduate courses in Education. These student-teachers are of two types. Those of the first type— of whom there are at least six (three of each sex)—are occupied in the schools each day for somewhat more than half the usual school session. They receive a salary of four hundred dollars a year from the city. Those of the second type are allowed to teach and observe about five hours a week. They have considerably more freedom in the choice of subjects and of hours than those of the first type. They receive no remuneration from the city. An unusual opportunity is thus afforded student-teachers to gain at the same time a thorough knowledge of the theory of education and practical experience in the art of teaching. In making appointments to places as teachers of the lowest grade in the Providence High School, preference is given to those who have successfully accomplished the course as student-teachers. In this respect student-teachers of the second type have the same status before the committee that makes appointments as those of the first type.

The practice teaching in the Providence High Schools is done under the following Supervising Teachers: Charles E. Dennis, Ph. D., *Latin*; Victor Frazee, A. M., *History;* Charles E. Tilley, A. M., *Physics and Chemistry;* Grace H. Parker, A. B., *Natural Science;* Horace E. Jacobs, A. M., *Mathematics and Latin;* Florence J. Whiting, A. M., *Physics and Chemistry;* Sidney A. Sherman, Ph. D. *American History and Civics.*

In a similar way student-teachers are appointed to places in the Providence Grammar Schools. They receive a salary of three hundred

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dollars a year from the city. If they are appointed, after completing the course in training, as regular teachers in the city schools, they have credit for experience which entitles them to receive five hundred dollars for their first year of service. They have also certain other advantages.

A limited number of Seniors or Graduates who are pursuing courses in Education are allowed to observe and teach in the Grammar Schools of the city in a way similar to that provided for student-teachers of the second type in high schools.

The practice teaching in the Providence Grammar Schools is done under the following supervising teachers:—

Isaac O. Winslow, A. M., *Grammar Grades;* Mary Williams, *Eighth Grade*; and the Grammar Critics of the Providence Public Schools.

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Premiums, Prizes, and Honors

The President's Premiums, derived from the income of a fund presented to the University in 1843 by President Wayland, are awarded each year to those members of the Freshman class who upon special examination are found to have attained the highest excellence in the studies required for admission to the University in Greek, Latin, and French. First and Second Premiums are awarded in each of these studies.

The examinations for the premiums deal with the general principles and laws of the languages involved rather than with irregularities and exceptions. Great importance is attached to the pupil's familiarity with the subject-matter of the works read, and to his ability to translate with accuracy and facility into clear, appropriate, and idiomatic English.

The examination in Greek occurs on the second Saturday of the first term, that in Latin on the third Wednesday, and that in French on the fourth Wednesday.

The award of these premiums in 1904 was as follows:

In *Greek*, the First Premium to Earle Winfield Peckham, instructed in the Classical High School, Providence.

The Second Premium to Ralph Philip Boaz, instructed in the Classical High School, Providence,

In *Latin*, the First Premium to Ralph Philip Boaz, instructed in the Classical High School, Providence.

The Second Premium to Earle Winfield Peckham, instructed in the Classical High School, Providence.

In *French*, the First Premium to Ralph Philip Boaz, instructed in the Classical High School, Providence.

A collateral First Premium for an examination of equal merit was awarded to Mary Evelyn Whelan, intructed in the Fall River High School.

The Second Premium to Earle Winfield Peckham, instructed in the Classical High School, Providence.

The Hartshorn Premiums, three in number, derived from the income of a fund of one thousand dollars, presented to the University in 1872 by Joseph C. Hartshorn, A. M., of the class of 1841, are awarded to those members of the Freshman class who upon examination are found to excel in the mathematical studies required for admission. The examination occurs on the third Saturday of the first term.

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The award of these premiums in 1904 was as follows;

The First Premium to JAMES ALEXANDER HALL, instructed in the Classical High School, Providence.

The Second Premium to LOUIS JOHN GILLESPIE, instructed in the High School, Manchester, New Hampshire.

The Third Premium to WADE CLARENCE West, instructed in the State Normal School, Glenville, West Virginia.

THE CARPENTER PRIZES FOR ELOCUTION, derived from the income of a fund established in 1867 by Thomas Carpenter and Lydia Carpenter, are awarded annually to the three members of the Sophomore class to whom are assigned, respectively, the first, the second, and the third rank of excellence in elocution.

The selections declaimed may be either prose or verse. They must be approved by the Professor of Public Speaking, with whom competitors must enter their names not later than the first day of February. A preliminary contest for the purpose of selecting the speakers takes place in the latter part of the winter term; all arrangements for it are in the hands of the Professor of Public Speaking.

The committee of award consists of five members—the Professor of Public Speaking, who is the chairman, two persons selected by the Corporation, and two persons selected by the Sophomore class during the first term of the year. No one who is or has been a member of the class is eligible. The contest for 1905 will be held in Manning Hall on May 9th.

In 1904 the prizes were awarded as follows:

The First Prize to FRANK DAVID MCINTYRE
The Second Prize to LESTER LEOPOLD FALK
The Third Prize to HARRIS MERRILL BARBOUR

THE HICKS PRIZES FOR EXCELLENCE IN DEBATE, established by the Hon. Ratcliffe Hicks, of the class of 1864, are annually awarded as follows:

Two prizes of forty dollars each, one in each of the two series of contests for the selection of the representatives of the University in the inter-collegiate debates. The prize is, in each instance, given to the man showing the greatest ability both in the preliminary trials and in the final trial. In awarding the prize, regard is given to thought, style, and delivery. The judges are three, appointed by the Debating Union.

In 1904 a prize was awarded to

GLEN WILLIAM WOODIN

A first prize of thirty dollars and two prizes of twenty dollars each, to the students showing the greatest ability in a public debate between the representatives of the Junior and Sophomore classes. Each class is represented by three men, whom a committee appointed by the President of the University chooses from the preliminary contestants at least a

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month before the public debate. This committee also determines the subject and makes the necessary arrangements. The judges in the public debate are three, one appointed by the President, and one by each group of competitors. The prizes are awarded irrespective of the decision upon the debate as a whole. The first prize may be withheld if no one is adjudged to deserve it. In making the award, regard is given to thought, style, and delivery. In 1905 the public debate will be held on May 23.

In 1904 these prizes were awarded as follows:

The First Prize to Lester Leopold Falk, 1906
A Second Prize to William Granville Meader, 1905
A Second Prize to Frank Clifton Hulse, 1905

The Dunn Premium. The income of a fund of one thousand dollars, presented to the University in 1872 by pupils and friends of the late Professor Robinson Potter Dunn, D. D., is given, at the end of the Junior year, to the student having the highest standing in the courses in rhetoric, English composition, and public speaking. In making the award, regard is given to the number of such courses taken as well as to the rank attained in them.

In 1904 the premium was awarded in equal parts to

Charles Stuart Mitchell
and
Irving Lanouette Price

The Carpenter Premiums, two in number, are derived from the income of a fund established in 1867 by Thomas Carpenter and Lydia Carpenter. They are assigned at the end of the Senior year to the two members of the Senior class who, "already on scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life—ability, character, and attainment."

In 1904 the premiums were awarded to

Howard Farman Hart
and
Ralph Hervey Bevan

The Howell Premium. The income of a fund amounting to one thousand dollars presented to the University in 1867 by the late Gamaliel Lyman Dwight, is given at the close of the second term of the Senior year to the student who, "having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy." To be considered a candidate for the premium a student must, each term from the Freshman year to the end of the second term in the Senior year, select at least one of the elective studies offered in Pure or Applied Mathematics.

In 1904 the premium was awarded to

Howard Farman Hart

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THE CLASS OF 1873 PRIZE. A fund of one thousand dollars, completed in 1898, has been presented to the University by the class of 1873, on the condition that its income should be used as a prize for an essay. The prize is annually offered for competition to members of the Senior class, the subject assigned being of a historical nature one year and of a philosophical nature the next. The subjects are assigned by the respective departments. In 1903–04 no award was made. For 1904–05 there has been assigned a philosophical subject: "Conscience, its Origin, Development, and Significance."

THE FOSTER PREMIUM IN GREEK is derived from the income of a fund of three thousand dollars bequeathed to the University in 1880 by the Hon. Lafayette Sabine Foster, LL.D., of the class of 1828. In accordance with the terms of the donor's will, the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third, and twenty-fourth books of Homer's Iliad or in the Oration on the Crown by Demosthenes."

The next examination, open to the members of the Senior class, will be held early in May, 1905. Candidates will be examined in the Iliad.

In 1904 the premium was awarded to

GUY BLANDIN COLBURN

In 1903 a coördinate prize was awarded to

RUBY MARION ATWOOD

THE LUCIUS LYON PREMIUMS IN LATIN are derived from the income of a fund of five thousand dollars presented to the University in 1893 by Mrs. Caroline L. Lyon, in memory of her husband, Lucius Lyon, of the class of 1844. Five-tenths of the income each year forms the first premium, three-tenths the second, and two-tenths the third. Any part of the income not needed in any given year must be added to the fund. The premiums are awarded as the result of a special examination held during the last term of the Senior year. The examination may relate to any or all of the following subjects: the Latin language, Roman literature, Roman history. The President of the University and the head of the Latin department prescribe for admission to the examination such conditions as in their judgment will secure the best results.

In 1904 the premiums were awarded as follows:

The First Premium to GUY BLANDIN COLBURN
The Second Premium to MORRIS BRAUN
The Third Premium to EDMUND KINGSLEY ARNOLD

THE WILLIAM GASTON SCHOLARSHIP. This fund of five thousand dollars was established in 1899 by the widow and children of the late Hon.

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William Gaston, LL. D., of the class of 1840. Its income is awarded annually by the Faculty upon absolute merit, without reference to financial condition.

For 1904-05 the scholarship has been awarded to

GLEN WILLIAM WOODIN

THE GASTON PRIZE MEDAL FOR EXCELLENCE IN ORATORY. From the income of a fund of three thousand dollars established in 1894, as a memorial to the late Hon. William Gaston, LL.D. of the class of 1840, a gold medal is annually awarded to the member of the graduating class who delivers the best original oration in English. The orations are not to exceed fifteen hundred words. In order to compete for the prize a student must deposit with the Registrar a type-written copy of his oration, signed with an assumed name, one month before the public competition. From these orations a committee appointed by the President of the University selects not more than six for delivery. The committee of award in the final contest consists of three members appointed by the President. In making the award regard is given to thought, style, and delivery. The winner of the medal is entitled to deliver an oration at Commencement.

The competition in 1905 will be held on February 21st. In 1904 the successful competitor was

ALBERT BENJAMIN WEST

APPOINTMENTS FOR COMMENCEMENT. At every commencement five members of the graduating class deliver original orations in English of not more than fifteen hundred words each. One of these is the winner of the Gaston medal; the other four are selected by the Faculty from nominations by the heads of departments. The basis of selection is scholarship, ability to write, and ability to speak. The students thus appointed confer with the Professor of Rhetoric, who advises with them in regard to the choice and treatment of subjects, and with the Professor of Public Speaking, who trains them in the delivery of their orations. Before Commencement each speaker must hand to the Professor of Rhetoric a copy of his oration for preservation in the University Library.

In 1904 the speakers appointed were

ALBERT BENJAMIN WEST,	RALPH HERVEY BEVAN
MORRIS BRAUN	ARTHUR UPHAM POPE

FINAL HONORS were awarded in 1904, under the conditions announced on page 131, to members of the Senior Class, as follows:

RALPH HERVEY BEVAN,

Roman Literature and History.

MORITZ BRAUN,

Greek Literature and History, Roman Literature and History, Philosophy, Biblical Literature and History.

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BERTRAM HARRINGTON BUXTON,
Chemistry.

GUY BLANDIN COLBURN,
Greek Literature and History, Roman Literature and History.

LOUIS EDWARD FEINGOLD,
Germanic Languages and Literatures, Romance Languages and Literatures.

HOWARD FARMAN HART,
Mathematics, Physics, Germanic Languages and Literatures.

GEORGE SANFORD HOLMES,
Romance Languages and Literatures.

NOBLE BRANDON JUDAH, JR.,
Romance Languages and Literatures.

HERBERT ALDEN KENYON,
Romance Languages and Literatures.

RALPH ARTHUR LANE,
Mathematics, Germanic Languages and Literatures.

ROBERT GRANT MARTIN,
English Literature and Language, Roman Literature and History, Germanic Languages and Literatures.

EUGENE LA VERNE MCINTYRE,
Mathematics, Germanic Languages and Literatures, Social and Political Science.

FREDERICK WILLIAM O'CONNELL,
Greek Literature and History, Romance Languages and Literatures.

HERBERT LEE SACKETT,
Germanic Languages and Literatures, Chemistry.

HARRY SMALLEY,
Romance Languages and Literatures, Germanic Languages and Literatures, Education.

ALBERT BENJAMIN WEST,
Greek Literature and History, Romance Languages and Literatures, English Literature and Language, Social and Political Science, Philosophy.

FLORENCE BUTLER BEITENMAN,
Germanic Languages and Literatures, Roman Literature and History.

LAURA BROOKS,
Germanic Languages and Literatures, Roman Literature and History.

AGNES ALICE CAWLEY,
Romance Languages and Literatures.

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FLORA MELVILLE COTTON,
Mathematics.

LINDA MAY LOWELL,
English Literature and Language.

MARY ELLEN OSLIN,
Romance Languages and Literatures.

ELEANOR STARK,
Germanic Languages and Literatures.

MAE STENHOUSE,
Germanic Languages and Literatures.

CARRIE ETTA SMALL,
Philosophy, English Literature and Language.

ELSIE MARION STRAFFIN,
Roman Literature and History, Greek Literature and History, Mathematics, English Literature and Language, Romance Languages and Literatures, Germanic Languages and Literatures.

SARAH ELLEN TAYLOR,
Greek Literature and History, Germanic Languages and Literatures.

EDITH MARION TILLINGHAST,
Education.

GEORGIA LOUISE TOWLE,
Romance Languages and Literatures, Germanic Languages and Literatures.

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Degrees Conferred in 1904

DEGREES IN COURSE

THE DEGREE OF BACHELOR OF ARTS

ON

Austin Ketcham Allen
Everard Appleton
Edmund Kingsley Arnold
Irving Judson Beckwith
Ralph Hervey Bevan
Henry James Brady
Moritz Braun
Herbert Frank Brightman
Bertram Harrington Buxton
Arthur Ewen Cameron
Charles Dyer Casey
Guy Blandin Colburn
Frederick Aloysius Coughlin
Charles Fowler Fields
Herbert Augustine Freeman
James Murray Gallison
Harmon Henry Gnuse
Clifford Moore Granger
Wells Albert Hall
Howard Farman Hart
Charles Shailer Hascall
Harry Worthington Hastings
John Peabody Herring
William George Hoffman, Jr.
Charles Wesley Hunt
Royal Nesmith Jessup
Harold Vincent Joslin
Noble Brandon Judah, Jr.
Llewellyn William Jutten
George Edward Kelleher
Herbert Alden Kenyon
Ralph Arthur Lane
Alpha Freeman Leonard
Samuel Everett Lincoln
Eugene Ambrose McCarthy
James Joseph McKenna
Joseph William Mackenzie
Robert Grant Martin
Carlton Howard Maryott
Allen Webster Milliken
Elisha Capron Mowry
Frederick William O'Connell
John Hector Palmer
Arthur Lionel Patch
Emory Lyon Place
Arthur Upham Pope
Lucius Albert Salisbury
William Sandager
Albert Hayes Stanton
Claude Henry Stockard
Herbert Jackson Stowell
Edwin Judkins Tetlow
Clarence McGregor Thompson
Albert Benjamin West
Eugene Merrill Wilson
Arthur Lincoln Young

Laura Brooks
Agnes Alice Cawley
Lillian Maud Coffin
Flora Melville Cotton
Lottie May Devlin
Annie Fisher
Nora Loretta Maguire
Theresa Rachel McKenna
Mary Ellen Oslin
Vera Rector
Marjorie Wadsworth Shaw
Carrie Etta Small
Eleanor Stark
Mae Stenhouse
Elsie Marion Straffin
Sarah Ellen Taylor
Georgia Louise Towle

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THE DEGREE OF BACHELOR OF PHILOSOPHY

ON

Wallace King Belding
Edward Joseph Black
Ilsley Boone
Oliver Hilliard Booth
Asa Lloyd Briggs
Ralph William Chandler
Paul Franklin Clark
Foster Barker Davis
Clarence Washington Dealtry
Arthur Albertus Denico
Harold Williams Drury
Richard Owen Dummer
William Young Easterbrooks
Louis Edward Feingold
George Blinn Francis, Jr.
William Henry Gray
Howard Bristol Grose, Jr.
With Class of 1903
Harold Robert Hanson
John Francis Heckman
Clifton Henry Hobson
George Sanford Holmes
Stephen Foster Hunt
Alfred Elton Isaac
Frederick Clark Jones
Louis Russell Langworthy
Charles Bainbridge Leland
Michael Joseph Lynch
James Alphonsus McCann
Eugene La Verne McIntyre
Stephen Waterman Mason
Jacob Alexander Mattuck
Houghton Metcalf
Lester Hutchinson Nichols
Harry Maynard Penley
Walter Everett Prince
Bernard Perry Raymond
Louis Earle Rowe
Herbert Lee Sackett
Berrick Schloss
Eliot Rossiter Scudder
Harry Smalley
Elmer Tompkins Stevens
Edward Padelford Taft
Samuel Beedy Trumbull
John Brown Watson

Edith Violet Aldrich
Laura Frances Baker
Lena Belle Baker
Florence Butler Beitenman
Eliza Ethel Bruce
Annie Louise Conley
Alice Marion Crosby
Anna Leah Fox
Hannah Heaton
Linda May Lowell
Annette Walker Milligan
Sara De Veaux Packard
Inez Vernon Sayer
Marion Lydia Shorey
Edith Marion Tillinghast

THE DEGREE OF CIVIL ENGINEER

ON

Robert Lawton Bowen, A. B.
William Edson Cheever
James Harper Duncan
Howard Foss Esten
Charles Duren Roston

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THE DEGREE OF MECHANICAL ENGINEER

ON

William Day Appleton
Warren Almon Clough
Alfred Fellows Masury
Wilber Tibbetts Reynolds
Edward Staples Smith
George Lawton Spencer

THE DEGREE OF MASTER OF ARTS

ON

Edgar Louis Ashley, A. B.
Jane Barclay, Ph. B.
Reginald Langdon Brown, A. B.
Gertrude Edith Bunn, Ph. B.
Theodore Arthur Cornell, A. B.
Ella Francis Cory, Ph. B.
James Warren Dyson, A. B.
Charles Kenworthy Francis, Ph.B.
Lillian May Gamwell, A. B.
Joseph Waite Ince, A. B.
Arthur Stephen Libby, A. B.
Myrtis Alida Millikin, A. B.
Harriet Edith Pierce, Litt. B.
Ella Artemisia Pollard, Ph. B.
Carrie Ethel Provan, A. B.
Lemuel Charles Raiford, Ph. B.
Herbert Lee Sackett
Lester Burrill Shippee, A. B.
Howard Dexter Smith, Ph. B.
Alma Stockard, A. B.
Elsie Marion Straffin
Harriet Barrows Utter, A. B.
Albert Benjamin West
Allan Ferguison Westcott, Ph. B.

DEGREES IN CONNECTION WITH CLASSES

THE DEGREE OF BACHELOR OF PHILOSOPHY

IN CONNECTION WITH THE CLASS OF 1893

ON

Charles Albert Selden

THE DEGREE OF CIVIL ENGINEER

IN CONNECTION WITH THE CLASS OF 1898

ON

Melvin Francis Church

HONORARY DEGREES

THE DEGREE OF DOCTOR OF SCIENCE

ON

John Ripley Freeman

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THE DEGREE OF DOCTOR OF LETTERS

ON

CHARLES EDWIN BENNETT
WILLIAM CAREY POLAND
IRVING BERDINE RICHMAN

THE DEGREE OF DOCTOR OF DIVINITY

ON

FREDERICK LINCOLN ANDERSON
JOHN HENRY MASON

THE DEGREE OF DOCTOR OF LAWS

ON

WILLIAM NEILSON MCVICKAR

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Students

GRADUATES

Ernest Spencer Abbott — Dalton, Kansas
A. B. (*Ottawa University*) 1903. Greek, Latin, Philosophy, English. Enrolled candidate for A. M.

Austin Ketcham Allen — *Stanfordville, N. Y.* — 43 University Hall
A. B. (*Brown University*) 1904. Physics, Mechanics, Chemistry. Enrolled candidate for A. M.

James Hope Arthur — *Providence* — 24 Medway St.
Ph. B. (*Brown University*) 1897. History. Enrolled candidate for A. M.

Edgar Louis Ashley — *Foxboro, Mass.* — 428 Maxcy Hall
A. B. (*Brown University*) 1903, A. M. 1904. German, English. Instructor in German. Registered candidate for Ph. D.

Vahan Simon Babasinian — *Samsoun, Turkey* — Chemical Laboratory
A. B. (*Anatolia College*) 1895; A. M. (*Brown University*) 1903; D. B. (*Hartford Theological Seminary*) 1900. Instructor in Chemistry. Chemistry, Comparative Anatomy. Registered candidate for Ph. D.

Alice Morse Barrett — *Providence* — 207 Williams St.
A. B. (*Brown University*) 1903. English, Biblical Literature. Registered candidate for A. M.

Irving Judson Beckwith — McDonough, N. Y.
A. B. (*Brown University*) 1904. Sociology, Biblical Literature. Registered candidate for A. M. in absentia.

Florence Butler Beitenman — *Mt. Penn, Berks Co., Pa.* — 79 Lloyd Ave.
Ph. B. (*Brown University*) 1904. Education, Latin, German. Enrolled candidate for A. M.

Everett Anthony Bowen — *Providence* — 27 Sycamore St.
A. B (*Brown University*) 1892. Graduate (*Newton Theological Institution*) 1895. History, Social Science.

Frederick Elias Bragdon — Saylesville, R. I.
A. B. (*Wesleyan University*) 1891. Education, Moral and Social Science. Enrolled candidate for A. M.

Moritz Braun — *Providence* — 39 Quaid St.
A. B. (*Brown University*) 1904. Biblical Literature, Philosophy. Enrolled candidate for A. M.

Clifton Hartwell Brewer — *Fitzwilliam, N. H.* — 271 North Main St.
A. B. (*Harvard University*) 1902, A. M. 1903; D. B. (*Cambridge Episcopal Theological School*) 1904. Curate of St. John's Church. Philosophy, Biblical Literature. Registered candidate for Ph. D.

Reginald Langdon Brown — Phenix, R. I.
A. B. (*Brown University*) 1903, A. M. 1904. English.

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Clarence Van Reynegom Bumsted, 212 Franklin, University of Pennsylvania, Philadelphia, Pa.
Ph. B. (*Brown University*) 1903. European History. Registered candidate for A. M. in absentia.

William Hamlin Cady *Providence* 127 Power St.
A. B. (*Brown University*) 1898. Organic Chemistry. Enrolled candidate for A. M.

Arthur Deering Call 18 Shultas Place, Hartford, Ct.
Ph. B. (*Brown University*) 1896. Sociology, Education, Philosophy. Enrolled candidate for A M. in absentia.

Ernest Palmer Carr North Dartmouth, Mass.
A. B. (*Brown University*) 1901. History, Education. Enrolled candidate for A. M. in absentia.

Agnes Elizabeth Clark *Providence* 121 Pleasant St.
A. B. (*Brown University*) 1899. Education, English, French. Enrolled candidate for A. M.

Paul Franklin Clark *Portland, Me.* Rhode Island Hall
Ph. B. (*Brown University*) 1904. Comparative Anatomy, Botany, Social Science. Enrolled candidate for A. M.

Warren Almon Clough *Groton, Mass.* 428 Maxcy Hall
M. E. (*Brown University*) 1904. Physics, Mathematics. Assistant in Mechanical Drawing. Enrolled candidate for A. M.

Guy Blandin Colburn *Nashua, N. H.* 117 Waterman St.
A. B. (*Brown University*) 1904. Education, English, Latin. Enrolled candidate for A. M.

Flora Melville Cotton *Providence* 16 Humboldt Ave.
A. B. (*Brown University*) 1904. Education, Mathematics, Physics. Enrolled candidate for A. M.

Vincil Carey Coulter *Macon, Mo.* 41 Angell St.
Ph. B. (*La Grange College*) 1899; A. B. (*William Jewell College*) 1902. English, Philosophy. Registered candidate for Ph. D.

Clinton Harvey Currier *Manchester, N. H.* 17 University Hall
Ph. B. (*Brown University*) 1898; A. M. 1899. Mathematics, Astronomy. Instructor in Mathematics. Registered candidate for Ph. D.

James Mercer Davis 2,225 Spring Garden St., Philadelphia, Pa.
A. B. (*Brown University*) 1902. Biblical Literature, Philosophy. Enrolled candidate for A. M. in absentia.

Herbert Franklin Davison 41 Summer St., Pawtucket, R. I.
Chemistry. Enrolled candidate for A. M.

Walter William Deckard 116 Gladstone St., Arlington, R. I.
A. B. and D. B. (*Hillsdale College*) 1899. Sc. B. (*Rio Grande College*) 1893. Ethics Sociology, Political Science. Enrolled candidate for A. M.

Dana Fletcher Downing 531 Dale St., Boston, Mass.
A. B. (*Brown University*) 1900; M. D. (*University School of Medicine, Boston*) 1904. Social Science, English Literature. Registered candidate for A. M. in absentia.

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Norman Armin Dubois 2,029 Bay St., Fall River, Mass.
Sc. B. (*Massachusetts Institute of Technology*) 1901; A. M. (*Brown University*) 1903. Chemistry, Physics. Enrolled candidate for Ph. D.

Richard Owen Dummer *Weld, Maine.* 29 Benevolent St.
Ph. B. (*Brown University*) 1904. Chemistry. Enrolled candidate for A. M.

George Wilbur Eddy *Providence* 132 Larch St.
A. B. (*Brown University*) 1903. History, Education. Enrolled candidate for A. M.

Frank Henry Ehmke *Silver Creek, N. Y.* Moses Brown School.
A. B. (*Brown University*) 1903. Philosophy, Romance Languages. Enrolled candidate for A. M.

Victor Emmanuel Emmel *Sherwood, Oregon* 62 George St.
Sc. B. (*Pacific University*). 1903, Sc. M. 1904. Comparative Anatomy, Philosophy. Registered candidate for Ph. D.

Maude Farnum *Providence* 112 Bridgham St.
Ph. B. (*Brown University*) 1902. History, Education Latin. Registered candidate for A. M.

Louis Edward Feingold *Worcester, Mass.* 436 Maxcy Hall
Ph. B. (*Brown University*) 1904. German, Biblical Literature, History. Enrolled candidate for A. M.

Andrew Little Fraser 88 Charlotte St., Rochester, N. Y.
A. B. (*Brown University*) 1902. History, Biblical Literature. Registered candidate for A. M. in absentia.

Herbert Augustine Freeman *Willimantic, Ct.* 433 Maxcy Hall
A. B. (*Brown University*) 1904. Physics, Mathematics. Assistant in Mathematics. Enrolled candidate for A. M.

Elbert Kirtley Fretwell *La Grange, Mo.* 41 Angell St.
Ph. B. (*La Grange College*) 1899, A. M. 1904. English, History. Registered candidate for Ph. D.

Harriet Peirce Fuller *Providence* 170 Prospect St.
A. B. (*Boston University*) 1881. History of Art, English, Latin. Enrolled candidate for A. M.

Charles Israel Gates 5 Jay St., Westerly, R. I.
A. B. (*Brown University*) 1899. American History, English, Education. Registered candidate for A. M. in absentia.

Harmon Henry Gnuse *La Grange, Mo.* 209 Maxcy Hall
A. B. (*La Grange College*) 1902; A. B. (*Brown University*) 1904. German, Education, English. Enrolled candidate for A. M.

Philip Bardwell Hadley *Shelburne Falls, Mass.* Rhode Island Hall
Ph. B. (*Brown University*) 1903. Comparative Anatomy, Physiology, Bacteriology. Registered candidate for Ph. D.

Henry Jewett Hall 161 Grand Ave., Edgewood
A. B. (*Brown University*) 1900, A. M. 1902. Psychology, Philosophy. Registered candidate for Ph. D.

Sarah Newton Hallett *Providence* 283 George St.
A. B. (*Brown University*) 1901. Greek, Latin, Philosophy. Registered candidate for A. M.

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Howard Farman Hart *Fayetteville, N. Y.* 433 Maxcy Hall
A. B. (*Brown University*) 1904. Education, Physics, Mathematics. Assistant in Mathematics. Enrolled candidate for A. M.

William Albion Hart South Dartmouth, Mass.
A. B. (*Brown University*) 1903. English, Education. Registered candidate for A. M. in absentia.

William Thomson Hastings *Feeding Hills, Mass.* 128 South Angell St.
A. B. (*Brown University*) 1903. English, Latin, Greek. Assistant in English). Enrolled candidate for A. M.

Hannah Heaton *Brunswick, Me.* 152 George St.
Ph. B. (*Brown University*) 1904. Education. Registered candidate for A. M.

Helen Elizabeth Hersey *Providence* 148 Broad St.
Ph. B. (*Brown University*) 1903. History, English. Enrolled candidate for A. M.

Ethel Clare Jameson 110 Summit St., East Providence
Ph. B. (*Brown University*) 1898, A. M. 1903. English.

Nels Johnson Rumford, R. I.
A. B. (*Brown University*) 1899. German. Enrolled candidate for A. M.

Herbert Alden Kenyon *Providence* 100 Hospital St.
A. B. (*Brown University*) 1904. English, Romance Languages. Assistant in Romance Languages. Enrolled candidate for A. M.

Frank Edwin Lakey *Providence* 14 Craven St.
A. B. (*Brown University*) 1894, A. M. 1901. Social Science

Harry Gancello Leighton *Providence* 130 South Angell St.
A. B. (*Brown University*) 1903. Social Science.

Grace Fisher Leonard *Providence* 156 Broad St.
Ph. B. (*Brown University*) 1903. History. Registered candidate for A. M.

Samuel Everett Lincoln *East Providence* 18 Hope College
A. B. (*Brown University*) 1904. Education.

Linda May Lowell *Providence* 167 Ohio Ave.
Ph. B. (*Brown University*) 1904. Education. Registered candidate for A. M.

Edward Joseph McCaffrey *Providence* 95 Chatham St.
Ph. B. (*Brown University*) 1903. Chemistry, Education. Registered candidate for A. M.

James Bernard McFadden Pawtucket, R. I.
A. B. (*Bates College*) 1893. Social Science, Education. Registered candidate for A. M.

Theresa Rachel McKenna *Providence* 39 Bainbridge Ave.
A. B. (*Brown University*) 1904. Greek, Latin, Education. Registered candidate for A. M.

Harold Lester Madison *East Greenwich* 4 University Hall
Ph. B. (*Brown University*) 1901, A. M. 1902. Comparative Anatomy, Botany, Bacteriology. Enrolled candidate for Ph. D.

Minnie Catherine Mahy *Providence* 40 Fourth St.
A. B. (*Brown University*) 1900; A. M. (*Nebraska University*) 1901. English. Registered candidate for Ph. D.

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Charles Franklin Martin *Greenwood, Mo.* 41 Angell St.
A. B. (*William Jewell College*) 1904. English, Philosophy. Enrolled candidate for A. M.

Jacob Alexander Mattuck *Worcester, Mass.* 15 Caswell Hall
Ph. B. (*Brown University*) 1904. Education, Chemistry. Enrolled candidate for A. M.

Roston Medbury *Columbus, Ohio* 5 Slater Hall
A. B. (*Ohio State University*) 1904. English, Political Economy. Enrolled candidate for A. M.

Annette Walker Milligan 211 Chapel St., Saylesville, R. I.
Ph. B. (*Brown University*) 1904. French, German, Philosophy.

Henri Albert Morgan *Norwich, Ct.* Rhode Island Hall
A. B. (*Williams College*) 1904. Comparative Anatomy, Botany. Enrolled candidate for A. M.

Norman Allen Moss 42 Barry St., Dorchester, Mass.
A. B. (*Brown University*) 1900. Education, English. Registered candidate for A. M. in absentia.

Clarence Elnathan Norris *Worcester, Mass.* 10 Brunonia Hall
A. B. (*Brown University*) 1900, A. M. 1902. Germanic Languages, English, Romance Languages. Instructor in German. Registered candidate for Ph. D.

George Barrows Obear *Lynn, Mass.* 33 Angell St.
Sc. B. (*Massachusetts Institute of Technology*) 1903. Physics, Mathematics, Chemistry. Registered candidate for Ph. D.

Mary Ellen Oslin *Providence* 241 Amherst St.
A. B. (*Brown University*) 1904. Education. Registered candidate for A. M.

Ernest Victor Page 74 Montello St., Roslindale, Mass.
A. B. (*Brown University*) 1896. Political Economy, Political and Social Science. Enrolled candidate for A. M. in absentia.

Henry Robinson Palmer *Stonington, Ct.* Journal Office
A. B. (*Brown University*) 1890. English, History of Art. Registered candidate for A. M. in absentia.

Maria Storrs Peck *Providence* 106 George St.
Ph. B. (*Brown University*) 1895, A. M. 1897. Education.

Walter Clarke Phillips *LaFayette, R. I.* 6 Thomas St.
Ph. B. (*Brown University*) 1902. English. Assistant in English.

Robinson Pierce, Jr. *Providence* 132 South Angell St.
Ph. B. (*Brown University*) 1902; Sc. M. (*Princeton University*) 1903. Physics.

Agide Pirazzini 218 Witherspoon Bldg., Philadelphia, Pa.
A. B. (*Brown University*) 1903; D. B. (*Temple College, Philadelphia*) 1904. Hebrew, English Literature, French. Enrolled candidate for A. M. in absentia.

Arthur Upham Pope *Newburyport, Mass.* 100 Waterman St.
A. B. (*Brown University*) 1904. Philosophy, German. Enrolled candidate for A. M.

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Walter Everett Prince *Worcester, Mass.* 188 Waterman St.
Ph. B. (*Brown University*) 1904. English, History. Enrolled candidate for A. M.

Mary Florence Rafter *Damariscotta, Me.* 66 Benefit St.
A. B. (*Brown University*) 1901. English. Registered candidate for A. M.

Jared Harvey Randall *Rangoon, Burma* 69 Doyle Ave.
A. B. (*Brown University*) 1897; A. M. 1900. History, English. Registered candidate for Ph. D.

Louis Albert Reese Peace Dale, R. I.
Ph. B. (*Ottawa University*) 1900; A. M. (*Brown University*) 1902. History, Economics. Registered candidate for Ph. D.

Mary Louise Rogers 80 Clyde St., Pawtucket, R. I.
A. B. (*Wellesley College*) 1898; A. M. (*Brown University*) 1902. English Literature.

Louis Earle Rowe *Shawomet Beach, R. I.* 435 Maxcy Hall
Ph. B. (*Brown University*) 1904. History of Art, History, English. Registered candidate for A. M.

Herbert Lee Sackett *Smith's Mills, N. Y.* 1 Hope College
Ph. B. (*Brown University*) 1904, A. M. 1904. Chemistry, Physics, Mathematics. Registered candidate for Ph. D.

Inez Vernon Sayer *Providence* 988 Smith St.
Ph. B. (*Brown University*) 1904. Education. Registered candidate for A. M.

Lillie Leonaretta Scholfield *Providence* 49 Beacon Ave.
A. B. (*Brown University*) 1903. English, Education, Physics. Enrolled candidate for A. M.

Marjorie Wadsworth Shaw Oak Lawn, R. I.
A. B. (*Brown University*) 1904. Education. Registered candidate for A. M.

Philip Darrell Sherman *Pawtucket, R. I.* 40 Hope College
A. B. (*Brown University*) 1902, A. M. 1903. English, German. Enrolled candidate for Ph. D.

George Herbert Sherwood Fifth and Ellenton Aves., New Rochelle, N. Y.
A. B. (*Brown University*) 1898, A. M., 1899. Comparative Anatomy, Physiology. Registered candidate for Ph. D.

Marian Lydia Shorey *Albion, Me.* 79 Lloyd Ave.
Ph. B. (*Brown University*) 1904. Physiology, Bacteriology, Organic Chemistry. Instructor in Physiology and Household Economics at the Women's College. Registered candidate for Ph. D.

Carrie Etta Small *Providence* 50 Montague St.
A. B. (*Brown University*) 1904. English, Education. Enrolled candidate for A. M.

Harry Smalley *Fall River, Mass.* 212 Maxcy Hall
Ph. B. (*Brown University*) 1904. Education, Political Economy. Enrolled candidate for A. M.

Elsie Marion Straffin *Brockton, Mass.* 16 Cooke St.
A. B. (*Brown University*) 1904, A. M. 1904. English Language and Literature. Fellow in English, and assistant in English in the Women's College. Registered candidate for Ph. D.

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Wilbur Kelsey Thomas *Amboy, Indiana* Moses Brown School
A. B. (*Friends' University, Wichita, Kansas*). Biblical Literature.

Edith Marian Tillinghast *Providence* 129 Oxford St.
Ph. B. (*Brown University*) 1904. Education, Political Economy. Enrolled candidate for A. M.

Henry Carroll Tracy *Malden, Mass.* Rhode Island Hall
A. B. (*Dartmouth College*) 1902. Comparative Anatomy, Chemistry. Enrolled candidate for A. M.

Frank Arthur Updyke *Delavan, Wis.* 49 George St.
A. B. (*Brown University*) 1893, A. M. 1896. Political Science, History. Political Economy. Registered candidate for Ph. D.

Bessie Clarinda Verder *Rutland, Vt.* 66 Benefit St.
Sc. B. (*Middlebury College*) 1898. Education, Chemistry. Enrolled candidate for A. M.

Helen Bowen Waterman *Providence* 70 Corinth St.
A. B. (*Brown University*) 1900. Education, English, French. Enrolled candidate for A. M.

Niles Westcott Oak Lawn, R. I.
Comparative Anatomy, Chemistry. Enrolled candidate for A. M.

Jessie Wheeler *East Wallingford, Vt.* 122 Fountain St.
A. B. (*Brown University*) 1901. English. Registered candidate for A. M.

Louis Gilman Whitten Stoughton, Mass.
A. B. (*Bates College*) 1900. History. Education. Registered candidate for A. M. in absentia.

Jessie Wilson Rumford, R. I.
Ph. B. (*Brown University*) 1898, A. M. 1899. History, Political Economy. Registered candidate for Ph. D.

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UNDERGRADUATES

SENIORS—CLASS OF 1905

NAME	RESIDENCE	ROOM
William Horton Albrecht	*North Scituate*	University 38
Frank Taylor Albro	*Fall River, Mass.*	Caswell 4
Charles Zaslavsky Alexander	*Providence*	Caswell 15
George Deacon Allison	*Brooklyn, N. Y.*	Maxcy 203
Harrington Tillinghast Anthony	*Drownville*	Slater 15
Harold Greene Arnold	*Providence*	58 College St.
Joseph Chester Bailey	*Providence*	Slater 2
Samuel Newhall Baker	*Providence*	4 Manning St.
Walter Howard Barney	*Providence*	Hope 35
Samuel Teel Bartlett	*West Somerville, Mass.*	Caswell 20
Edgar Augustine Beatty	*Lovettsville, Va.*	Hope 10
Leroy Franklin Bliss	*Fall River, Mass.*	Hope 32
Frederick Calvin Broomhead	*Fall River, Mass.*	Maxcy 212
Allyn Larrabee Brown	*Norwich, Ct.*	Slater 14
Arthur Robert Brown	*Hornellsville, N. Y.*	Maxcy 433
Earl Whitney Browning	*Worcester, Mass.*	Hope 8
Bertram Clyde Bugbee	*Woodstock Valley, Ct.*	127 Benefit St.
George Burroughs Bullock	*Providence*	28 Pitman St.
Frank Arthur Burr	*East Providence*	Engineering Bldg. 20
Raymond Davis Cady	*Providence*	Rogers Hall
William Henry Camfield	*Providence*	383 Sayles St.
James Henry Connolly	*Pawtucket*	Maxcy 315
Frederick Webster Cook	*Providence*	University 21
Frank Starr Cooke	*Providence*	Hope 36
Judson Adams Crane	*Malden, Mass.*	Hope 33
Leonard Wolsey Cronkhite	*Newton Centre, Mass.*	100 Waterman St.
Earle Bennett Cross	*Providence*	Caswell 11
Lewis Porter Damon	*Fall River, Mass.*	Hope 34
Herbert Franklin Davison	*Pawtucket*	41 Summer St., Pawtucket
Albert Arthur Deal	*Rhinebeck, N. Y.*	Maxcy 203
Paul Churchill DeWolf	*Newark, N. J.*	4 Manning St.
Charles Henry Douglass	*Providence*	Caswell 16
Albert Averill Dowd	*Woodbury, Ct.*	University 33
William Clark Drohan	*Brockton, Mass.*	Maxcy 315
DeWitt Carl Eggleston	*Sound Beach, Ct.*	Maxcy 314
Charles William Ehmke	*Silver Creek, N. Y.*	Hope 18
John Pierce Filson	*Diamond, N. Y.*	Maxcy 318

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NAME	RESIDENCE	ROOM
Fred Haywood Freeman	*Sterling, Ct.*	22 Halsey St.
Richard Thomas Garland	*Pawtucket*	University 51
Jesse Madison Gathany	*Hallstead, Pa.*	Maxcy 313
George Adam Gessner	*Macomb, Ill.*	Brunonia 4
Philip Trayne Gleason	*Lonsdale*	Hope 26
Samuel Carlisle Goodrich	*Newburgh, N. Y.*	Slater 15
Cardinal Leonidas Goodwin	*Bacone, Indian Territory*	University 38
Edwin Sykes Goodwin	*Laconia, N. H.*	Hope 12
Stephen Earl Gratrix	*Newport*	University 27
Chester Carr Greene	*Providence*	Maxcy 321
Martin Stuart Hall	*Alpine, N. Y.*	Maxcy 321
Harry Spear Harding	*Stoneham, Mass.*	100 Waterman St.
Edward Everett Harkness	*Gardner, Mass.*	University 31
Theodore Conrad Hascall	*East Northfield, Mass.*	Caswell 11
William Chace Hascall	*East Northfield, Mass.*	Maxcy 205
Frederick Eugene Hawkins	*Providence*	Hope 21
John Joseph Healey	*Providence*	University 50
Howard Raymond Heydon	*Crompton*	4 Manning St.
William Raymond Hickman	*Greencastle, Ind.*	100 Waterman St.
Harry Hiram Hinds	*St. Albans, Vt.*	Hope 7
Charles Alfred Hobbs	*Delavan, Wis.*	202 Power St.
Benjamin Holland, Jr.	*Providence*	Hope 10
Clarence Warren Holmes	*Landaff, N. H.*	University 60
Edgar Arnold Hopkins, Jr.	*Providence*	Brunonia 2
Ray Palmer Hovey	*Caloosa, Fla.*	Maxcy 321
Arthur Allison Howard	*Wakefield, Mass.*	University 40
Frank Gilbert Howard	*Arlington*	Hope 2
Colgate Hoyt, Jr.	*New York, N. Y.*	54 College St.
Frank Clifton Hulse	*Port Jefferson, N. Y.*	University 27
Newton Peck Hutchison	*Providence*	195 Thayer St.
Lucien Stevens Hyde	*Whitney's Point, N. Y.*	Hope 4
Alfred Wesley Ingalls	*Lynn, Mass.*	Caswell 24
Robert Irving Jamieson	*Conimicut*	Hope 21
Oliver Saunders Jennings	*Fall River, Mass.*	Caswell 8
Ralph Gerhardt Johnson	*Des Moines, Ia.*	Hope 3
Leon Munn Kendall	*Fairlee, Vt.*	Maxcy 209
Ralph Darling Kettner	*Providence*	University 10
Charles Harvey Kingman	*Jamestown, N. Y.*	Hope 8
William John Lamkie	*Walpole, N. H.*	Brunonia 14
Ernest Farnum Lewis	*Providence*	University 34
John Henry McGough, Jr.	*Providence*	University 50
Edward Francis McKenna	*Providence*	1686 Westminster St.
George Rupert MacMinn	*Burlington, Ia.*	Hope 19
John Christopher Mahoney	*Providence*	University 50

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NAME	RESIDENCE	ROOM
Frank Elliot Marble	*Lynn, Mass.*	Brunonia 13
Arthur Palmer May	*Somerset, Mass.*	68 Olney St.
William Granville Meader	*Providence*	Hope 21
Jacob Cooper Millard	*Providence*	120 Congdon St.
Charles Stuart Mitchell	*West Long Branch, N. J.*	Hope 13
Philip Nanes	*New York, N. Y.*	348 North Main St.
Harold Charles Newton	*Athol, Mass.*	Maxcy 313
Sangkyu Pak	*Seoul, Korea*	279 George St.
Arthur Niles Potter	*Willimantic, Ct.*	University 51
Willard Leslie Pratt	*Everett, Mass.*	Hope 9
Irving Lanouette Price	*Worcester, Mass.*	Hope 17
William Alfred Read	*South Hanson, Mass.*	Maxcy 210
Albert Charles Richards	*Providence*	29 Francis St.
Arthur Henry Robinson	*Esperance, N. Y.*	Hope 16
Charles Edwin Robinson	*New Market, N. H.*	58 College St.
Charles Lorimer Robinson	*Providence*	Hope 9
Charles Frederic Savage	*Providence*	Rockefeller Hall
Fred Schwinn	*Newark, N. J.*	4 Manning St.
Charles Henry Seddon	*Providence*	Hope 3
Francis Hervey Smith	*Hillsboro Bridge, N. H.*	Hope 23
William Arnold Spicer, Jr.	*Providence*	Slater 14
John Jay Staley	*Warren's, Wis.*	Caswell 12
Howland Sherman Stedman	*Newport*	University 34
Smith Oliver Steere	*Mapleville*	38 Durfee St.
Frank Wlliam Stephens	*Hornellsville, N. Y.*	Maxcy 433
Augustus Noble Stonegrave	*St. Albans, Vt.*	Hope 6
Harvey Julian Swann	*Salem, Mass.*	Hope 32
John Harrison Thompson	*Hartford, Ct.*	Hope 29
Roy Towne	*Windham, Ct.*	University 40
Arthur Swain Townsend	*East Providence*	Maxcy 202
Earl Vanderbilt	*Little York, N. J.*	194 Broad St.
Rodney Charles Walker	*Ludlow, Vt.*	University 33
Chester Campbell Waters	*Providence*	Hope 17
Archie Roy Webb	*Whitehall, Wis.*	Hope 2
Thomas McAlpine Webb	*Pettaconsett*	Hope 2
Charles Albert Weeks	*Providence*	Hope 23
Paul Weiss	*Dolgeville, N. Y.*	32 Custom House St.
Herbert Comstock Wells	*Kingston*	54 College St.
Niles Westcott	*Oak Lawn*	Oak Lawn
Carlton Grieves White	*Somerville, Mass.*	Hope 26
Joe Selman Willis	*Waco, Texas*	8 De Foe Place
Basil Boise Wood	*Newton Centre, Mass.*	100 Waterman St.
Glenn William Woodin	*Blodgett's Mills, N. Y.*	Hope 1
Ralph Benjamin Woodsum	*Exeter, N. H.*	University 47

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JUNIORS—CLASS OF 1906

NAME	RESIDENCE	ROOM
Walter Herbert Angell	*Pawtuxet*	33 Sea View Ave., Pawtuxet
George Edward Bailey	*Winchendon, Mass.*	Hope 42
Harris Merrill Barbour	*Wollaston, Mass.*	100 Waterman St.
Albert Francis Bassford	*Norristown Pa.*	117 Bridgham St.
Frederick Reynolds Belding	*Malone, N. Y.*	Caswell 3
Charles Barrows Bennett	*Providence*	243 Pleasant St.
Reinhart William Berthold	*Webster, Mass.*	64 College St.
Gustaf Frederic Theodore Bjerkander	*Providence*	Hope 44
Howard Wheaton Brayton	*Providence*	Slater 4
John Henry Breslin	*Revere, Mass.*	University 50
Walter Albert Briggs	*Attleboro, Mass.*	108 Evergreen St.
Edgar Sheffield Brightman	*Provincetown, Mass*	Hope 44
Aylsworth Brown	*Providence*	54 College St.
Ray Brown	*Wollaston, Mass.*	Slater 7
Leslie Goddard Buck	*Cavendish, Vt.*	Maxcy 317
Raymond Gilbert Bugbee	*North Attleboro, Mass.*	University 58
Alexander Manlius Burgess	*Portland, Me.*	54 College St.
William Wilder Burton	*Pawtucket*	Hope 8
James Lester Busby	*Warren, Mass.*	Brunonia 14
Hayward Murray Butler	*Providence*	Lyman Gymnasium
Francis Mercer Campbell	*Providence*	Caswell 14
Henry Godfrey Carpenter	*East Providence*	Maxcy 202
Walter Clayton Carpenter	*Pawtucket*	287 Pawtucket Ave., Pawtucket
Horace Edward Chandler	*Scranton, Pa.*	Maxcy 434
Charles Raymond Chappell	*New London, Ct.*	Hope 27
Peter Pineo Chase	*Hyannis, Mass.*	Slater 7
Harrie Norman Cheney	*Providence*	University 41
Albert Whitman Claflin	*Providence*	Hope 33
John Maurice Clifford	*Providence*	31 Grape St.
Joseph Colter	*Suffield, Ct.*	Hope 22
Howard Wilbur Congdon	*Providence*	University 26
Jason Osborne Cook	*Rumney Depot, N. H.*	Hope 23
Gerald Arthur Cooper	*Providence*	90 Congdon St.
George Bartlett Corcoran	*West Springfield, Mass.*	Maxcy 316
Herbert Ellsworth Cory	*Providence*	51 Arch St.
William Aloysius Cox	*Pawtucket*	University 17
Hollis Brown Cubberly	*South Plainfield, N. J.*	Hope 44
Frederick Simms Cushing	*Taunton, Mass.*	University 27
Jared Williams Davis	*Cedar Rapids, Ia.*	8 De Foe Place

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NAME	RESIDENCE	ROOM
Louis Irving Dexter	*Valley Falls*	Maxcy 210
Lester Leopold Falk	*Chicago, Ill.*	Caswell 4
John Ferguson, Jr.	*Westerly*	263 Benefit St.
John Morton Ferrier	*Providence*	285 Union Ave.
Robert Franklin Field	*Providence*	25 Wilson St.
Alfred Wayland Fletcher	*Providence*	Hope 15
James Roy Foulder	*Salt Point, N. Y.*	Slater 10
Arthur Garfield Fowler	*Woonsocket*	Maxcy 207
Lucian Deane Fuller	*Plaistow, N. H.*	University 47
Daniel Edward Geary	*Providence*	162 Orms St.
Phillips Standish Gilman	*Worcester, Mass.*	Maxcy 207
Theodore William Gordon	*East Providence*	Rockefeller Hall
Alexander Graham	*Somerville, Mass.*	Brunonia 2
Frank Ingraham Greene	*Newport*	University 34
James Hamilton, Jr.	*Howard*	Howard
Philip Adams Hanson	*Portland, Me.*	101 Broadway
Joseph Leo Harson	*Providence*	Hope 7
Harry French Hatch	*St. Albans, Vt.*	Hope 41
Charles LeRoy Hayward	*Temple, N. H.*	University 25
William Read Hersey	*Providence*	148 Broad St.
Prescott Tillinghast Hill	*Providence*	Hope 20
James Henry Hinchey	*Pottersville, Mass.*	117 George St.
George Augustine Hines	*Oak Lawn*	Hope 25
Henry Ramsden Hobson	*Providence*	Hope 22
Charles Spencer Huff	*Little York, N. J.*	Brunonia 3
Homer Elijah Hunt	*Fairfax, Vt.*	Hope 21
Harold Wells James	*Providence*	Caswell 14
John Harrison Joyce	*Brockton, Mass.*	University 51
Edwin Ahira Kelley	*Fairhaven, Mass.*	Maxcy 211
William Arthur Kennedy	*Providence*	31 Forest St.
Arthur Caswell King	*Taunton, Mass.*	Hope 24
Harry Knowles	*Wakefield*	155 Benefit St.
George Franklin Krause	*Lebanon, Pa.*	University 57
Arthur Joseph Latham	*Edgewood*	Caswell 26
Robert Lee Latimer	*Montville, Ct.*	Maxcy 211
William Russell Lightbody	*Manchester, N. H.*	Slater 15
William LeRoy Lillie	*Lebanon, Ct.*	147 Angell St.
Leverett James Luce	*Suffield, Ct.*	Maxcy 202
Edwin Herbert Lyle	*New York, N. Y.*	University 53
Frank David McIntyre	*Waldo, Wis.*	Brunonia 2
Allen Wilbur Manchester	*Bristol, Ct.*	Maxcy 202
Frank Nesler Mandeville	*Newark, N. J.*	4 Manning St.
Ralph Alvin Marble	*Worcester, Mass.*	University 21

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NAME	RESIDENCE	ROOM
Philip Victor Marcus	*Providence*	235 Orms St.
Paul Matteson	*Providence*	University 48
Arthur Carroll Maxfield	*Pittsfield, N. H.*	University 30
John Perkins Mead	*East Jaffrey, N. H.*	Hope 42
Charles Douglas Mercer	*Providence*	54 College St.
Ernest Ephraim Moore	*Plymouth, Vt.*	Maxcy 317
Wesley Floyd Morse	*Keene, N. H.*	Brunonia 10
Preston Sumner Moulton	*Providence*	Slater 2
Lanning Myers	*Alloway, N. J.*	29 Benevolent St.
Elmer Douglas Nickerson	*Providence*	Hope 25
Carl Nathaniel Nutter	*Pittsfield, N. H.*	87 Congdon St.
John Howard O'Keefe	*Taunton, Mass.*	Maxcy 315
Ralph Granville Ostby	*Providence*	Slater 4
Charles Earle Otis	*Providence*	Slater 8
Horatio Nelson Otis	*Providence*	233 Bowen St.
Eliot Greer Parkhurst	*Providence*	Slater 18
Harry Ernest Pattee	*Bristol, N. H.*	Hope 4
William Thomas Pearson	*Fall River, Mass.*	Slater 15
Arthur Truman Steere Phetteplace	*Providence*	University 18
Emery Moulton Porter	*Providence*	Slater 17
Rhys Powell	*Scranton, Pa.*	University 59
Clinton Alfred Pray	*Brooklyn, Ct.*	97 Mitchell St.
Thomas Wendell Prestwich	*Providence*	125 Doyle Ave.
Florence John Harrington Price	*Providence*	4 Manning St.
Leonard Augustus Prouty	*Auburn, Mass.*	100 Waterman St.
Oscar William Rackle	*Canton, O.*	66 Cook St.
Clement Richardson	*Winchester, Mass.*	72 College St.
Louis Rosen	*Providence*	229 Willard Ave.
Gustavus Adolphus Russ	*Norwich, Ct.*	22 College St.
Meyer Harold Sackett	*Providence*	22 Wheaton St.
Nathan Sackett	*Providence*	22 Wheaton St.
Joseph Schmidt	*Providence*	243 Chalkstone Ave.
Charles Sawyer Shinn	*Lakehurst, N. J.*	University 58
George Gershon Shor	*Worcester, Mass.*	Caswell 15
William Gould Slocum	*Newport*	Hope 20
Chester Wilson Smith	*Worcester, Mass.*	4 Manning St.
Harris Deming Stone	*Auburn*	32 Custom House St.
Walter Douglas Swaffield	*Jersey City, N. J.*	100 Waterman St.
Axel Fabian Swanson	*Chicago, Ill.*	Maxcy 320
Matthew Mark Sweeney	*Woonsocket*	Maxcy 314
Everett Harold Swett	*Providence*	78 Woodbine St.
Leeson Oren Tarleton	*Concord, N. H.*	Maxcy 320
Charles Carpenter Tillinghast	*Oak Lawn*	Maxcy 208

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NAME	RESIDENCE	ROOM
Howard Melville Tracy	*Cortland, N. Y.*	Maxcy 427
Richard Dana Tucker	*Newburyport, Mass.*	100 Waterman St.
Lloyd Peter Upton	*Manchester, N. H.*	University 26
Philip Vermilye Van Arsdale	*Plainfield, N. J.*	87 Congdon St.
Edwin Raymond Walsh	*Providence*	293 Prairie Ave.
Gene Wilder Ware	*Shelburne Falls, Mass.*	University 48
Edward Wilford Weikert	*Hauppauge, N. Y.*	Hope 45
Thomas Albert Welch	*Lynn, Mass*	Slater 2
Elmer Orlando Weld	*Mansfield, Mass.*	Brunonia 14
Lester Allen Wells	*Providence*	University 10
Ralph Cahoon Whitenack	*Wilmington, Del.*	100 Waterman St.
Byron Whittemore	*Pittsfield, N. H.*	29 Benevolent St.
William Grant Winsor, Jr.	*Brockton, Mass.*	Hope 25
Walter Edgar Woodbury	*Nashua, N. H.*	University 18
Arthur Llewellyn Wright	*West Newton, Mass.*	39 East George St.
Stephen Edward Wright	*Auburn*	Auburn

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SOPHOMORES—CLASS OF 1907

NAME	RESIDENCE	ROOM
Myron Hopkins Strong Affleck	*Yonkers, N. Y.*	4 Manning St.
Francis Maurice Anderson	*Albany, N. Y.*	University 13
Richard Sisson Austin	*Providence*	Slater 7
Benjamin Charles Baker	*Providence*	54 College St.
Frederick Eugene Banfield, Jr.	*Newton Centre, Mass.*	Hope 43
John Thomas Bannan	*Providence*	311 Prairie Ave.
John Temple Barnicoat, Jr.	*Providence*	577 Prairie Ave.
Frederick Steere Beattie	*Central Falls*	Maxcy A
Sidney Raymond Bellows	*Shawomet Beach*	Slater 5
Joseph Boardman, Jr.	*Plymouth, N. H.*	University 36
Halbert Ambrose Bolt	*Cannonsville, N. Y.*	University 46
Claude Raymond Branch	*Providence*	Slater 11
Hall Anderson Brewer	*Hall, Ind.*	Hope 34
William Edward Bright	*Scranton, Pa.*	Brunonia 1
Harold Learned Brown	*Sioux City, Ia.*	100 Waterman St.
Arthur Garfield Bruce	*Gardner, Mass.*	University 31
Harry Duane Bruce	*Moretown, Vt.*	Maxcy 431
George Ambrose Buckley	*Brockton, Mass.*	Maxcy 314
George Earle Burnham	*Central Falls*	Hope 26
Arthur William Bushell	*Providence*	Hope 16
George Campbell	*Westminster, West, Vt.*	Hope 11
Zechariah Chafee, Jr.	*Providence*	Caswell 35
George Wilder Cheney	*Nashua, N. H.*	University 41
Alfred Preston Cobb	*Bridgeton, Me.*	121 Angell St.
Harry Wright Collins	*Pawtucket*	University 41
Samuel Edward Compton	*Washington, D. C.*	87 Cushing St.
William Mortimer Cullen	*Thomaston, Me.*	8 De Foe Place
Robert Curley	*Upton, Mass.*	University 46
Myron Shirley Curtis	*Pawtucket*	University 52
George Walker Davis	*Providence*	99 Taber Ave.
Milton Allen Davis	*Pottersville, Mass.*	Maxcy 322
Ralph Norton Dennett	*North Adams, Mass.*	Hope 39
William Obed Devoll, Jr.	*New Bedford, Mass.*	Slater 1
Maurice Louis Dolt	*Dollon, Sarthe, France*	Slater 12
Arthur Francis Driscoll	*North Brookfield, Mass.*	Maxcy 316
William Matthew Dugan	*Brinckerhoff, N. Y,*	Hope 3
Gardner Coggeshall Easton	*Newport*	72 College St.
Lloyd Champlin Eddy	*Providence*	Slater 11
Ralph Leroy Elrod	*St. Albans, Vt.*	Hope 2

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NAME	RESIDENCE	ROOM
John Silva Enos	*Providence*	Hope 7
James Grover Fegan	*Providence*	21 Pitman St.
Arthur Leonard Flagg	*Woonsocket*	Hope 24
John Ellsworth Flemming	*Chester, Pa.*	Hope 15
Albert Morril Fletcher	*Cambridge, Mass.*	University 43
Charles Fowler, Jr.	*Galveston, Texas*	Slater 11
Arthur Willis French	*Fall River, Mass.*	Maxcy 322
Horace Clemmer Funk	*Clayton, Pa.*	Brunonia 3
Dana Taylor Gallup	*Old Mystic, Ct.*	Hope 46
Leon Stearns Gay	*Cavendish, Vt.*	Hope 21
Alfred Henry Gurney	*New London, Ct.*	Hope 38
Ralph Vincent Hadley	*Manchester, N. H.*	University 45
Ernest Russell Hager	*Auburn*	700 Park Ave.,Auburn
Arthur Valette Haight	*Poughkeepsie, N. Y.*	Slater 17
Henry Emmanuel Hallborg	*Newport*	72 College St.
Charles Mayo Hamlin	*Orono, Me.*	Caswell 23
Herbert Elisha Harris	*Olneyville*	Hope 4
Forrest Shepard Harvey	*St. Albans, Vt.*	Caswell 13
Walter Emerson Hatch	*St. Albans, Vt.*	Hope 41
Oliver James Barton Henderson	*Bristol*	64 Bay View Ave., Bristol
Levi Samuel Hoffman	*East Greenville, Pa.*	58 College St.
Frederic Nightingale Howard	*Providence*	4 Manning St.
William Francis Huntley	*Providence*	Caswell 14
George Hurley	*Providence*	Hope 40
Henry Greene Jackson	*Providence*	Slater 12
John Williams James	*Detroit, Mich.*	Maxcy 434
Charles Henry Jones, Jr.	*Wareham, Mass.*	University 41
Preston Day Jones	*Providence*	26 Congdon St.
Robert Bradford Jones	*Providence*	Slater 17
Herbert Beers Keen	*Camden, N. J.*	Slater 20
Harvey McLeod Kelley	*Bradford, Mass.*	Brunonia A.
John Courtland Knowles	*Providence*	Slater 14
Vernon Krieble Krieble	*Lansdale, Pa.*	58 College St.
Benjamin Franklin Grosh Lindemuth	*Harrisburg, Pa.*	265 Benefit St.
Leonard Simmons Little	*Providence*	Slater 1
Albert John Loepsinger	*Providence*	39 Atlantic Ave.
Robert Toombs Lowrey	*Providence*	127 Oxford St.
Charles Adolph Lundell	*Providence*	University 31
Charles Dillon McEvoy	*Providence*	120 Woodward Road
Norman Fox MacGregor	*New York, N. Y.*	100 Waterman St.
James MacPherson	*Glasgow, Scotland*	100 Waterman St.
Thomas Randolph Marshall	*Seaville, N. J.*	Brunonia 2
Joshua Wilbur Mason	*Trenton, N. J.*	100 Waterman St.
George Felix Mattuck	*Worcester, Mass.*	Maxcy 323

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NAME	RESIDENCE	ROOM
Royal McKnight Merritt	*Clifton Springs, N. Y.*	100 Waterman St..
Harold Edmund Miller	*St. Albans, Vt.*	29 Benevolent St.
Ephraim Butler Moulton	*Arlington*	Hope 27
Joseph Briggs Munro	*Warren*	Warren
Ira Leston Nickerson	*Manton*	Manton
Frederick William O'Connor	*Pawtucket*	27 Lawn Ave., Pawtucket
Frederic Ernest O'Neil	*Malone, N. Y.*	Caswell 8
Evan Bucklin Owen	*Providence*	110 Bowen St.
Edward Joseph Owens	*Valley Falls*	Maxcy 316
Harold William Paine	*Warwick*	Hope 26
William Partridge, Jr.	*Central Falls*	Hope 48
Leon Frank Payne	*Shelburne Falls, Mass.*	University 48
Henry Thornton Peace	*Saylesville*	Saylesville
Harry Edgar Pearsall	*Oxford, N. Y.*	Caswell 3
Edwin James Potter	*Bridgeton*	Hope 25
Ernest Shaw Reynolds	*Providence*	60 Evergreen St.
Edwin Vose Ross	*Portland, Me.*	University 26
William Nisbet Ross	*Providence*	University 18
Richard Arthur Sanders	*Providence*	University 10
Victor Arthur Schwartz	*Newark, N. J.*	4 Manning St.
Ulysses Sylvester Grant Scull	*Vineland, N. J.*	Hope 10
Arthur Gray Seabury	*Little Compton*	Hope 36
Percy Shires	*Scranton, Pa.*	Slater 1
Benjamin Graves Sinclair	*Johnson, Vt.*	Hope 46
Walter Clifton Slade	*Providence*	University 10
Clesen Havill Smith	*Lancaster, N. H.*	Caswell 26
David Wilkinson Smith	*Manville*	University 41
Arthur Chester Snow	*Providence*	Slater 18
Frank Gideon Spencer, Jr.	*Providence*	Hope 35
William Almor Spinney, Jr.	*Newark, N. J.*	4 Manning St.
Samuel Adams Steere	*Providence*	University 59
Henry Jennison Blakely Stitt	*Saxton's River, Vt.*	Hope 11
Homer Newton Sweet	*Providence*	Hope 44
Harry Hadley Thurlow	*Buffalo, N. Y.*	University 59
Raymond Frank Tift	*Somerville, Mass.*	University 22
Leon Edgar Truesdell	*Townshend, Vt.*	Maxcy 427
John Gormley Walsh	*Providence*	Brunonia 2
Ernest Milton Watson	*Cranston*	Maxcy 205
Joseph Lewis Wheeler	*Providence*	University 12
Albert Easton White	*Providence*	University 42
Lee Heyer White	*New London, Ct.*	University 60
William Kenneth White	*Mansfield, Mass.*	University 52
Nelson White	*Pawtucket*	20 Rufus St., Pawtucket
Albert Everett Whittaker	*Central Falls*	Hope 41

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NAME	RESIDENCE	ROOM
David Justin Allen	*Stanfordville, N. Y.*	Hope 6
Fred Sawyer Auty	*Providence*	Hope 35
Leo Matthew Bannon	*Central Falls*	Maxcy 208
Thomas Joseph Barry	*Brockton, Mass.*	Maxcy 425
Samuel Jacob Beeber	*Worcester, Mass.*	Maxcy 436
Frederick William Bielefeld	*Poughkeepsie, N. Y.*	119 Waterman St.
William Charles Bitting	*New York, N. Y.*	Caswell 35
Ernest LeRoy Blish	*Granby, Mass.*	Maxcy 432
Ralph Philip Boas	*Providence*	Caswell 15
James Wilmer Booth	*Worcester, Mass.*	University 30
Louis Williston Boutelle	*Providence*	Caswell 14
Jacob Brack	*Boston, Mass.*	64 College St.
Arthur Chester Brackett	*River Point*	University 57
Asa Sheldon Briggs	*Ashaway*	Slater 12
Roswell Franklin Brooks,Jr.	*Harrisville*	Hope 35
William Ward Browne	*Providence*	Maxcy 205
David Lesile Bruce	*West Newton, Mass.*	29 North Main St.
Osmore Wheeler Buddington	*Wilmington, Del.*	Hope 30
Earle Carpenter Bullock	*Providence*	Slater 10
Elmer Jay Bunting	*Keene, N. H.*	Brunonia 10
Robert Taylor Burbank	*Providence*	Caswell 3
Harold Stacey Burdick	*Providence*	Hope 36
Walter Henry Burnham	*Providence*	Caswell 4
William Phineas Burnham	*Wells, N. Y.*	University 44
Leslie Edgar Bushnell	*Auburn*	Hope 14
John Gladding Canfield	*Providence*	35 South Angell St.
Eugene Clayton Carder	*Cambridge, Mass.*	Caswell 12
Francis Wingate Carret	*Roxbury, Mass.*	3 De Foe Place
Frank Cornelius Carroll	*Providence*	131 Tockwotton St.
George Wyman Carroll, Jr.	*Norwich, Conn.*	Caswell 5
Norman Stanley Case	*Providence*	Hope 40
Harry Hobart Chandler	*Newburyport, Mass.*	Hope 48
Howard Millar Chapin	*Providence*	84 Keene St.
Franklin Irving Chichester	*Poughkeepsie, N. Y.*	Slater 5
Paul Lloyd Chipman	*Wareham, Mass.*	63 Angell St.
Charles Richmond Church	*Providence*	University 18
Henry Garfield Clark	*Shannock*	Slater 20
Homer Metcalf Clark	*North Attleboro, Mass*	Caswell 35
Ronald Blake Clarke	*Providence*	Caswell 11

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NAME	RESIDENCE	ROOM
Harry Duffield Clough	*New Bedford, Mass.*	108 Dexter St.
Haven Alton Cobb	*Providence*	121 Angell St.
Irving Haven Coffin	*Edgartown, Mass.*	66 Meeting St.
Clarkson Abel Collins, Jr.	*New York, N. Y.*	Slater 10
Earl Biddle Conklin	*Canton, Pa.*	Maxcy 426
Chester Chisholm Connell	*Stonington, Conn.*	Maxcy 319
John Joseph Aloysius Cooney	*Providence*	153 Calhoun Ave.
Carl Leslie Cordery	*Providence*	59 Congress Ave.
Henry William Corp	*Providence*	Caswell 26
Michael Francis Costello, Jr.,	*Pawtucket*	376 Weeden St., Pawtucket
Phanuel Bishop Covell	*Warren*	University 54
William Joseph Crowley	*Brockton, Mass.*	Maxcy 315
Frank Anthony Cummings	*Providence*	592 Potter Ave.
John Leo Curran	*Providence*	10 Burnside St.
David Davidson	*Providence*	Hope 19
Alfred Jason Densmore	*Lebanon, N. H.*	University 36
Arthur Lewis Denton	*Plainfield, N. J.*	Hope 14
Alfred William Dickinson	*Somerville, Mass.*	University 22
Patrick Edward Dillon	*Valley Falls*	Valley Falls
Herbert Larned Dorrance	*Providence*	4 Manning St.
Archibald Wallace Dunn	*Auburn, Me.*	Hope 13
Fred Albert Edgecomb	*Groton, Conn.*	Hope 15
Franklin Eugene Edgecomb	*Groton, Conn.*	Hope 9
Daniel Webster Edmonds	*Washington, D. C.*	291 Thayer St.
Harry Albert Ehmke	*Silver Creek, N. Y.*	Hope 18
Paul Ellsworth Everett	*Franklin, Mass*	104 Cedar St., Pawtucket
William Gilmore Feeley	*Providence*	171 Tockwotton St.
Miner Elliot Fenn	*Landgrove, Vt.*	University 18
Peter Augustine Foley	*Providence*	2 James St.
Francis Ford	*Providence*	106 Bates St.
Benson Ralph Frost	*Rhinebeck, N. Y.*	3 De Foe Place
Walter Mason Gager	*Providence*	102 Kenyon St.
Clifton Gardner	*Fall River, Mass.*	Caswell 16
Louis John Gillespie	*Manchester, N. H.*	62 College St.
Henry Ginnel	*Garden City, N. Y.*	Caswell 5
Robert Ripley Gleason	*Lonsdale*	121 Angell St.
Ira Nathan Goff, Jr.	*Providence*	Hope 33
Samuel Goldonofsky	*Woonsocket*	Maxcy 323
Edwin Ruthven Gordon	*East Providence*	East Providence
Christopher Albert Greene	*Peace Dale*	Slater 7
Everett Arnold Greene	*Newton Centre, Mass.*	Hope 43
Norman Boyea Griggs	*Willimantic, Conn.*	Maxcy 430
Charles LeRoy Grinnell	*Middletown*	72 College St.

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NAME	RESIDENCE	ROOM
Laurence Rich Grose	*Yonkers, N. Y.*	Slater 18
Joseph Isaac Grover	*Providence*	Maxcy 323
Grover Cleveland Haberlin	*Pawtucket*	57 Clyde St., Pawtucket
Harry Joseph Putnam Hadley	*Malone, N. Y.*	Caswell 9
James Alexander Hall	*Providence*	31 Pocasset Ave.
Harry White Hallenbeck	*Pawtucket*	161 North Main St., Pawtucket
James Hamilton	*Cambridge, Mass.*	University 12
Peter Davidson Gunn Hamilton	*Needham, Mass.*	8 De Foe Place
Clifford Murray Hathaway	*New Bedford, Mass.*	6 De Foe Place
James Ovington Hazard	*Westerly*	Maxcy 319
Edward Charles Hempel	*Geneva*	8 Lexington Ave., Geneva
William Madison Higgins	*Groveton, N. H.*	Caswell 23
Lucian Winfield Himes	*Phenix*	Phenix
Henry Hines	*Oak Lawn*	Oak Lawn
John Ralph Honiss	*Newark, N. J.*	Caswell 17
Mark Leslie Hough	*Woonsocket*	Caswell 33
Sheldon Jenckes Howe	*Providence*	Caswell 13
Clifford Chesley Hubbard	*East Milton, Mass.*	72 College St.
Robert Alexander Hueston	*Providence*	University 42
Carl Joseph Hunkins	*Laconia, N. H.*	29 Benevolent St.
Clayton Edward Hunt	*Columbia, Conn.*	Maxcy 430
Homer Bailey Hunt	*North Charlestown, N. H.*	Hope 27
Harry Albert Jager	*Providence*	462 Prairie Ave.
Louis Cottrell Jennings	*Newport*	Caswell 25
Edmund Talma Jillson, Jr.	*Providence*	Hope 34
Raymond Wilcutt DeWolf Jones	*Greenfield, Mass.*	Maxcy 206
Carl Edmund Joplin	*Hampton, N. H.*	3 De Foe Place
Lloyd Wadleigh Josselyn	*Bridgewater, Mass.*	University 62
James Francis Kiernan	*Wareham, Mass.*	63 Angell St.
Alfred Hopkins Lake	*Providence*	Hope 4
Frederick Walls Lane	*Providence*	26 Irving Ave.
Harry Badger Lane	*New Haven, Ct.*	87 Congdon St.
Lawrence Lyle Larrabee	*Port Alleghany, Pa.*	Hope 37
Albert Eddy Leach	*North Raynham, Mass.*	87 Congdon St.
Edward Lawrence Leahy	*Bristol*	Bristol
John Howard Lever	*Providence*	263 Benefit St.
Walter Nahum Freeman Linnell	*Attleboro, Mass.*	Maxcy 426
Henry Willis Littlefield	*Providence*	Slater 7
Clinton Coolidge Low	*Lynn, Mass.*	Caswell 34
Harold William Lyall	*Lawrence, Mass.*	Hope 47
Charles David McCann	*Brockton, Mass.*	University 50
John Clarence McDonald	*Ludlow, Vt.*	Maxcy 318
William Lloyd McDonald	*St. Albans, Vt.*	Caswell 13

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NAME	RESIDENCE	ROOM
John Brown Mackenzie	*Fall River, Mass.*	Caswell 16
Ralph Wilbur McPhee	*Newton, Mass.*	Hope 31
Joseph James Malcolm	*Providence*	64 Doyle Ave.
Alvin Inman Marshall	*Malone, N. Y.*	Caswell 7
Hunter Sylvester Marston	*New York, N. Y.*	Slater 10
James Hartwell Chester Marston	*Fairhaven, Mass.*	Maxcy 206
Alfred Joseph Maryott	*Springfield, Mass.*	Hope 7
Frank Fenner Mason	*Pawtucket*	15 Sisson St., Pawtucket
LeRoy Ayer Mehan	*Plattsburg, N. Y.*	Hope 28
Richard Hagan Miller	*Providence*	4 Manning St.
Thomas Miller	*Fall River, Mass.*	Maxcy 324
Harold Edson Minnerly	*Tarrytown, N. Y.*	Slater 5
Harper Brown Mitchell	*Providence*	64 Keene St.
Ralph Ewing Mitchell	*Providence*	64 Keene St.
Frank Wilson Moody	*Hallowell, Me.*	University 25
George Denny Moore	*Cheswold, Del.*	University 16
Leslie Fowler Mowry	*Providence*	21 Dover St.
Robert Charles Nason	*Medway, Mass.*	Maxcy 204
Henry Nuttall	*Fall River, Mass.*	53 Pine St., Pawtucket
Lewis Harvey Nutter	*Pittsfield, N. H.*	87 Congdon St.
John Joseph O'Connor	*Taunton, Mass.*	University 16
Harold Gilbert O'Neil	*Malone, N. Y.*	Caswell 7
Roland Cuthbert Ormsby	*Matteawan, N. Y.*	Slater 7
William Fowler Otis	*Providence*	233 Bowen St.
Everett Mitchell Paddock	*Providence*	Hope 35
Sidney Small Paine	*Newton Centre, Mass.*	Hope 40
Ely Eliot Palmer	*Providence*	Slater 6
Earle Winfield Peckham	*Providence*	20 Dodge St.
Charles Westmacott Perry	*Pawtucket*	University 52
Fred Hale Pierce	*Danielson, Ct.*	87 Congdon St.
Charles Sumner Plummer, Jr.	*Newport*	Caswell 24
William Denton Pollock	*Richmond Hill, N. Y.*	29 Benevolent St.
Harry Earl Pooler	*East Providence*	24 Walnut St., East Providence
Charles Francis Potter	*Marlboro, Mass*	Hope 38
John Donald Pryor	*South Orange, N. J.*	Caswell 17
William Whyte Reynolds	*North Adams, Mass.*	Hope 39
Donald Varnum Richardson	*Providence*	55 Glenham St.
George Francis Alexander Riley	*Fall River, Mass.*	Maxcy 324
Harry Wolcott Robbins	*Ballston Spa, N. Y.*	6 De Foe Place
Dwight Wood Robinson	*Auburn, Me.*	Slater 3
George Wells Root	*North Attleboro, Mass.*	North Attleboro, Mass
Willis Miley Rose	*Washington, D. C.*	Slater 17
Bertram Francis Ryder	*Cotuit, Mass*	63 Angell St.

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NAME	RESIDENCE	ROOM
Bowen Pullman Ryder	*Pawtucket*	Brunonia 14
Norman Lewis Sammis	*Huntington, N. Y.*	Slater 11
Robert Aloysius Scally	*Stoneham, Mass.*	6 De Foe Place
Benjamin Theodore Schiek	*Pardeeville, Wis.*	Hope 8
Maurice Elijah Schur	*Worcester, Mass.*	Maxcy 436
Philip Haas Shaffner	*Chicago, Ill.*	4 Manning St.
Percy Augustus Shaw	*Fall River, Mass.*	Maxcy 201
Carl Wilfred Shepardson	*Athol, Mass.*	87 Congdon St.
Frank Garret Shinn	*Lakehurst, N. J.*	University 58
Myron Davis Shiverick	*Falmouth, Mass.*	62 College St.
Conrad Fabian Sjoberg	*Elmhurst, N. Y.*	Hope 5
Howard Albert Skinner	*Yonkers, N. Y.*	Caswell 18
Clyde Robinson Smith	*Hartford, Ct.*	Hope 29
Earl Robert Smith	*Franklinville, N. Y.*	Maxcy 208
William Armour Smith	*Lawrence, Mass.*	Hope 33
Henry Pomeroy Stacy	*Pawtucket*	University 59
Charles Rathbone Stark, Jr.	*Providence*	Brunonia 3
Nathan Sternseher	*Providence*	57 Olney St.
Harlan True Stetson	*Newton Centre, Mass.*	Hope 30
Woodbury Sweetser Stowell	*Bristol*	Bristol
Merrick Lyon Streeter	*Arlington Heights, Mass.*	Maxcy 210
Herbert Knapp Sturdy, Jr.	*Attleboro Falls, Mass.*	Slater 6
Charles James Sullivan	*Providence*	363 Admiral St.
Robert James Banigan Sullivan	*Providence*	Slater 2
Leslie Earl Swain	*Providence*	Maxcy 320
Harold Anthony Sweetland	*Providence*	Slater 14
Harry Laurence Tanner	*Cortland, N. Y.*	Hope 1
George Danforth Taylor	*Stamford, N. Y.*	Caswell 25
René Paul Thalmann	*Providence*	78 Benevolent St.
Albert Clark Thomas	*Wakefield, Mass.*	Maxcy 205
Ray Brown Thomas	*Burlington, Vt.*	22 College St.
Ralph Hopkins Tingley	*Providence*	University 12
Frank Hamilton Towne	*Silver Creek, N. Y.*	Hope 28
George Alfred Townsend	*Glens Falls, N. Y.*	Hope 40
Leon Ernest Varnum	*New Bedford, Mass.*	39 Parkis Ave.
Joseph Angier Vernon	*Providence*	28 George St.
Raymond Goodwin Von Tobel	*Waterbury, Ct.*	80 Chestnut St.
Harold Allen Walker	*Taunton, Mass.*	University 44
William Russell Walker 2d	*Providence*	367 Angell St.
Clarence Wilton Way	*Dennisville, N. J.*	Slater 20
Wade Clarence West	*Glenville, W. Va.*	29 Benevolent St.
Charles Asa Westcott	*Hopedale, Mass.*	Caswell 36
George Franklin Weston, Jr.	*Providence*	225 Lenox Ave.

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NAME	RESIDENCE	ROOM
Stewart Downes Weston	*Providence*	225 Lenox Ave.
James George Whalen	*Northampton, Mass.*	Maxcy 432
Donald Proctor White	*Providence*	Caswell 13
Ernest Henry Winslow	*Walpole, Mass.*	Hope 45
Sydney Smith Winslow	*Fall River, Mass.*	Maxcy 201
Harry Draper Winsor	*Jamaica Plain, Mass*	60 Hamilton St.
Frank Charles Woods	*St. Johnsbury, Vt.*	Maxcy 425
Peter Augustus Worsley	*Providence*	22 Rosedale St.
Grey Huntinford Wyman	*Lawrence, Mass.*	Hope 47
Howard Seth Young	*Woonsocket*	Caswell 33

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SPECIAL STUDENTS

NAME	RESIDENCE	ROOM
Joel Charles Ainsworth	*Providence*	70 Alverson Ave.
Louis Earle Allen	*Winthrop, Mass.*	4 Manning St.
Robert Horace Andrews	*New Haven, Ct.*	Slater 4
Frederick Huntington Babcock	*Providence*	126 Waterman St.
Edward Sumner Bailey	*Reading, Mass.*	Brunonia 3
René Napoleon Bernard	*Watervliet, N. Y.*	103 Foundry St., Central Falls
Archibald Douglas Brown	*Providence*	University 44
Charles Walter Brüninghaus	*Worcester, Mass.*	49 Common St.
Henry Dewees Cady	*Warren*	Warren
Thomas Lawrence Carty	*Pawtucket*	13 Amy St., Pawtucket
Frank Hammett Childs	*New Bedford, Mass.*	Slater 3
Herbert Warner Clark	*Stowe, Mass.*	29 Benevolent St.
Albert Blake Coats	*Lowell, Mass.*	Hope 12
John Howard Collier	*Providence*	322 Benefit St.
Redmond Peter Conley	*Phenix*	Slater 6
Frank Bourne Cowell	*Providence*	Caswell 12
Patrick Joseph Coyle	*Woonsocket*	54 Center St., Woonsocket
Moses Leverock Crossley	*Providence*	197 Power St.
Carl Stone Crummett	*Haverhill, Mass.*	Brunonia 1
William James Cumming	*Central Falls*	183 Cross St., Central Falls
Eugene Bromley De Merritt	*Exeter, N. H.*	Caswell 9
Joseph Cummings Dort	*Providence*	Hope 22
William Washington Dove	*Providence*	139 Lexington Ave.
George Bradford Draper	*Pawtucket*	217 Central Ave., Pawtucket
John Henry Duggan	*Providence*	313 Admiral St.
Hume Elting Flagler	*Poughkeepsie, N. Y.*	Caswell 3
Willard Brayton Hall	*Geneva*	300 Smithfield Road, Geneva
Samuel Armstrong Halsey	*Newark, N. J.*	4 Manning St.
Warren Bertram Harris	*Millbury, Mass.*	University 44
Hunter Hart	*Pawtucket*	83 Center St., Pawtucket
Gustav Naphthali Hausmann	*Providence*	Caswell 21
James Everett Francis Henry	*Providence*	661 Cranston St.
Vincent Charles Hoye	*Taunton, Mass.*	University 50
George Barron Hubbard	*Winthrop Beach, Mass.*	4 Manning St.
Samuel Eugene Jackson	*Pawtucket*	Caswell 7
Joseph Franklin Jenckes, Jr.	*Wrentham, Mass.*	Maxcy 204
Herbert Fred Keyser	North Sutton, N. H.	72 College St.
Edmond Irving LaBeaume	*St. Louis, Mo.*	Slater 7
Erroll Stevens Ladd	*Springfield, Mass.*	Maxcy 208

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NAME	RESIDENCE	ROOM
Ralph Ernest Larry	*Providence*	Hope 15
George Henry Lewis	*Providence*	29 Benevolent St.
Donald MacLean	*Bethlehem, Pa.*	47 George St.
Oscar Maddaus	*Brooklyn, N. Y.*	Hope 5
William Henry Marran	*Pawtucket*	51 North Bend St., Pawtucket
David Hirst Mills	*Ashton*	Hope 6
Edmund Everett Moffett	*Saylesville*	Sayesville
Leo Vincent Mooney	*Pawtucket*	University 42
William Dexter Morrill	*Lynn, Mass.*	Caswell 34
Edwin Guy Morse	*Holliston, Mass.*	North Swansea, Mass.
Robert Fairfax Munro	*Bristol*	321 High St., Bristol
James Murray	*Providence*	64 Sabin St.
James Lee Murray	*Narragansett Pier*	Caswell 36
Howard Russell Newman	*Bristol*	Slater 8
Frank Wetherell Pierce	*Providence*	29 Hudson St.
Wayne Lawrence Randall	*Providence*	58 College St.
William Henry Rivard	*Providence*	562 Potter Ave.
Wilmarth Young Seymour	*Warren*	University 54
Herbert Benjamin Shearer	*Dublin, Pa.*	Brunonia 1
Thomas Wilkinson Steere	*Woonsocket*	Woonsocket
John Earle Tetlow	*Shawomet Beach*	Shawomet Beach
Henry Mulford Tomlinson	*Portland, Ore.*	Maxcy 431
Frank Albert Walker	*Providence*	314 Dyer St.
Samuel Church Wardwell	*Bristol*	Hope 14
Walter Arthur Watts	*Providence*	University 26
LeRoy Francis Whipple	*Pawtucket*	75 High St., Pawtucket
Waldo James Williams	*Slatington, Pa.*	77 Dyer St.
Louis Raymond Wise	*North Attleboro, Mass.*	Slater 4

GENERAL SUMMARY

Graduates	104
Seniors	125
Juniors	141
Sophomores	127
Freshmen	221
Special Students	67
Women's College	203
Total	988

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The Women's College in Brown University

ORGANIZATION OF THE WOMEN'S COLLEGE

Instruction for undergraduate women* is provided by a department of the University known as the Women's College in Brown University. The aim of this College is to offer to all properly prepared women precisely the same examinations, the same courses of study, under the same teachers, and the same degrees that the University offers to men, but to preserve the distinct social life of a separate college.

The Women's College has a separate recitation hall, known as Pembroke Hall, situated a quarter of a mile from the other University buildings. It is named after Pembroke College, Cambridge, England, the college of Roger Williams. It is of red brick with stone and terra cotta trimmings, after the old English University style of the fifteenth and sixteenth centuries. The building is three stories high, and is fitted up with every convenience. On the first floor are the offices, a private room for the instructors, and three recitation rooms with a seating capacity of fifty-four in the smallest and seventy-nine in the largest. On the second floor are two recitation rooms, a reception room, a study and library combined, thirty by twenty-six feet, and a magazine and reading room, eighteen by twenty-six feet. The third floor is one large hall, seventy-six by forty-four feet, with open-timbered roof and two large fire-places, and on the south side a platform. In the basement, which is light, dry and airy, the students' lockers, baths, kitchen, and lunch room are located. The resources of this building are supplemented by the various University libraries, laboratories, and museums.

The Corporation of the University assumes supervision and control of the Women's College as of other departments of the University and for this purpose appoints annually an Executive Committee of the Women's College. For 1904-05 this committee consists of the following members: The PRESIDENT, the DEAN, R. H. I. GODDARD, A. M., the Rev. HENRY M. KING, D. D., STEPHEN O. METCALF, A. B.

The Corporation receives gifts of money to found scholarships, fellowships, and professorships in Brown University for the benefit of its women

*In the Graduate Department of Brown University all courses intended for graduate students are open to women on the same terms as to men.

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students, and for the general purposes of the Women's College, and holds and administers such funds as separate and distinct from the general funds of the University. All gifts, legacies, and bequests for the Women's College, like those meant for any other department of the University, should be made payable to "Brown University, in Providence, in the State of Rhode Island and Providence Plantations."

The President of the University is charged with the general direction, supervision, and government of this College as of other departments of the University. The immediate direction, supervision, and control is devolved, subject to the direction of the President, on the Dean of the Women's College. An Advisory Council, appointed under the authority of the Corporation, advises with the President and with the Dean upon matters relating to the Women's College, and makes recommendations to the Executive Committee of the Women's College or to the Corporation. The council is composed of the following members: Miss Sarah E. Doyle, Miss Amelia S. Knight, Mrs. Eliza G. Radeke, *Mrs. A. I. C. D. Ames, Mrs. Annie Howes Barus.

The Faculty of the Women's College is composed of the heads of all departments of instruction in Brown University, together with all professors and instructors who are actually teaching in the College.

REQUIREMENTS FOR ADMISSION

The requirements for admission to the Women's College are the same that the University prescribes for men; and the entrance examinations for women are held at the same times and places and under the same conditions as those for men. In place of entrance examinations, certificates may be presented from duly authorized schools. For full information on all these points, see pages 37-49.

DEGREES

The requirements for the various degrees are the same for women as for men. Information regarding these requirements may be found on pages 53-63. Upon students of the Women's College who complete satisfactorily the work leading to the degree of A. B., Ph. B., or Sc. B., the Corporation of the University confers the appropriate degree.

Special students who satisfactorily complete any University course receive certificates of their attainments.

COURSES OF INSTRUCTION

In all the required studies classes are formed which are taught by the professors and instructors who have in charge the corresponding classes of men. The elective courses offered are identical in character with

*Deceased.

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the corresponding courses offered to men. A list of those offered during the current year may be found in the Annual Announcement of the Women's College. Requests for information should be addressed to the Registrar of the Women's College, Pembroke Hall, Providence.

Students who do not wish to become candidates for a degree are allowed to register as special students on terms similar to those described on page 50. Each applicant for registration as a special student must present to the Dean sufficient evidence of her ability to pursue successfully the courses chosen. Every special student, unless excused by the Dean and by the professors in charge of her subjects, must take the regular examinations in those subjects.

EXAMINATIONS AND REPORTS

As a rule, women take the same examinations as those offered to men, and at the same times and places. When a separate examination is necessary, the two examinations are made as nearly identical in character as possible. Reports of proficiency are given after all examinations.

DEPARTMENTAL HONORS

Departmental honors are awarded to women on the same conditions as to men. The names of women students awarded final honors are printed in the Commencement Program and in the Annual Catalogue of Brown University.

PHYSICAL CULTURE

Great emphasis is laid upon physical training, and a competent teacher gives instruction in this subject throughout the year. Regular exercise with light apparatus is required two hours each week of Freshmen and Sophomores; it is elective for Juniors and Seniors.

DUES

Students at the Women's College pay the same dues as other students of the University. See pages 132-133. No deduction in tuition is made on account of absence. One-half of the tuition and of the incidental expenses is to be paid in advance. The remainder is due January 1st. Laboratory expenses, etc., are to be paid two weeks before the close of a term.

Special students at the Women's College are charged $10 a term for each course holding three recitations a week. Laboratory charges are in addition to this.

DORMITORY ACCOMMODATIONS

The College owns one dormitory, the Slater Memorial Homestead, which contains four double rooms and nine single rooms. All the rooms are

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well furnished. One of the single rooms, on the second floor, is unusually large, and for it and board the charge is $8.25 a week. Two of the single rooms, on the third floor, are very small, and for each of them and board the charge is $5.25 a week. For all the other single rooms, and for half of each double room, together with board, the charge is $6.25 a week. Students are charged with room rent, but not with board, during the vacations which occur in the academic year: the rate is $2.50 a week for the majority of the rooms; $4.50 and $1.50 for the rooms specially mentioned above. Payment for each term must be made in advance.

It is possible for students to obtain rooms very near the Slater Memorial Homestead and take their meals at the dormitory.

Desirable homes for students may also be obtained in private families. Lodgings, with or without board, may be secured on consultation with the Dean.

Each student renting a room in the dormitory must sign a contract therefor in the form given below, on which surety may be demanded, binding her to pay or see paid the rent of the room through the entire year. Where two students rent a room together, each must sign a contract for half the room expenses. This obligation is not impaired by the student's removal from the College, whatever the cause of such removal. The form of contract is given below.

The following is a contract between the Women's College in Brown University, party of the first part, and the undersigned, party of the second part. I hereby engage room No. in Slater Memorial Homestead; the same not to be occupied by any other person without consent of the party of the first part, and I bind myself to pay or cause to be paid to the Dean of the Women's College in Brown University the entire rent, including heat and service, amounting to $ for the college year beginning September, 190 .

It is a part of this agreement that I shall be held responsible for all damage or defacement of such room or its furniture, ordinary wear excepted; also that disuse of the room by me on account of illness, or in case registration is refused me owing to low standing or bad conduct, does not impair the obligation of this contract.

Signed.....

This day of 190 .

LOAN FUNDS

The Rhode Island Society for the Collegiate Education of Women has founded a Loan Fund from which students of the Women's College who have completed their first year may borrow small sums on easy terms. This fund is available only for students whose record for scholarship is satisfactory to the committee which administers the loans. Further information may be obtained from the Dean.

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SCHOLARSHIPS AND PREMIUMS

The College awards annually from its own funds scholarships of varying amounts to students in need of financial aid. These scholarships are given only to students whose work is creditable, and are withdrawn if their holders become deficient in scholarship or subject in any way to college discipline. Application for scholarships should be made to the Dean. Awards are not made until July first of each year. The Rhode Island Women's Club annually devotes the income of its Churchill Fund toward the payment of the tuition of some worthy student in the Women's College. There are also the following endowed scholarships:

The Sarah E. Doyle Scholarship for young women, of one thousand dollars, founded by the lady whose name it bears, the income to be applied toward the payment of the tuition of students in the Women's College who have been prepared for college in the Providence High School.

The Sarah Sutton Scholarship for young women, of one thousand dollars, founded by one of her daughters.

The Daniels Scholarship of twenty-five hundred dollars, the income to be used toward paying the expenses of one or more women pursuing studies either in the University or in the Woman's College adjunct thereto.

The Howard Scholarship of one thousand dollars presented by James Leland Howard of Hartford, Conn.

The Joseph Thayer Scholarship of sixty-five hundred dollars, the income to be for the education of any young man or woman, who is a resident of the town of Uxbridge, desiring a liberal education.

The Gaspee Chapter Daughters of the American Revolution Prize of forty dollars, offered by the Gaspee Chapter of D. A. R., is paid annually to that student in the graduating class of the Women's College who shall present the best essay upon some topic in American history. The essays are to bear each an assumed name, but to be accompanied by an envelope marked with the assumed name and enclosing the candidate's real name and address. The essays must be handed to the Dean before May 1, 1905. The award is announced on Commencement Day, when the topic for the ensuing year is named. The topic for the year 1903-1904 was "The Treaty of 1783 between Great Britain and the United States." The successful competitor was Florence Butler Beitenman. The topic for the year 1904-1905 will be "The Committees of Correspondence in the New England Colonies."

The students of the Women's College are entitled to compete in all examinations for premiums and prizes offered by Brown University. In case any woman is entitled to a first premium a collateral prize is awarded by the Dean.

Further information in regard to the work of the Women's College may be secured, and catalogues obtained by addressing the Dean.

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OFFICERS OF ADMINISTRATION AND INSTRUCTION

WILLIAM HERBERT PERRY FAUNCE, D. D., LL. D., PRESIDENT.
ANNIE CROSBY EMERY, PH. D., DEAN.
EMMA BRADFORD STANTON, A. M., ASSISTANT REGISTRAR.

BENJAMIN FRANKLIN CLARKE, SC. D.
Professor of Mechanical Engineering

JOHN HOWARD APPLETON, SC. D.
Newport-Rogers Professor of Chemistry

WILLIAM CAREY POLAND, LITT. D.
Professor of the History of Art, and Director of the Museum of Fine Arts

NATHANIEL FRENCH DAVIS, LL. D.
Professor of Pure Mathematics

WILLIAM WHITMAN BAILEY, LL. D.
Professor of Botany

*WINSLOW UPTON, A. M.
Professor of Astronomy, and Director of the Ladd Observatory

ALBERT GRANGER HARKNESS, A. M.
Professor of Roman Literature and History

HENRY BRAYTON GARDNER, PH. D.
Professor of Political Economy

COURTNEY LANGDON, A. B.
Professor of the Romance Languages and Literatures

WILFRED HAROLD MUNRO, A. M.
Professor of European History

GEORGE GRAFTON WILSON, PH. D.
Professor of Social and Political Science

JAMES IRVING MANATT, PH. D., LL. D.
Professor of Greek Literature and History

WALTER COCHRANE BRONSON, LITT. D.
Professor of English Literature

WALTER GOODNOW EVERETT, PH. D.
Professor of Philosophy and Natural Theology

*On leave of absence during the academic year 1904-05.

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*ASA CLINTON CROWELL, PH. D.
Associate Professor of the Germanic Languages and Literatures

CARL BARUS, PH. D.
Hazard Professor of Physics

FRANCIS GREENLEAF ALLINSON, PH. D.
David Benedict Professor of Classical Philology

HENRY PARKER MANNING, PH. D.
Assistant Professor of Pure Mathematics

JAMES QUAYLE DEALEY, PH. D.
Associate Professor of Social and Political Science

WALTER BALLOU JACOBS, A. M.
Professor of the Theory and Practice of Education

ALBERT DAVIS MEAD, PH. D.
Professor of Comparative Anatomy

ALBERT BUSHNELL JOHNSON, A. M.
Associate Professor of the Romance Languages

JOHN FRANCIS GREENE, A. M.
Assistant Professor of Roman Literature and History

FREDERICK SLOCUM, PH. D.
Assistant Professor of Astronomy

WILLIAM MACDONALD, PH. D., LL. D.
Professor of History

JOHN EMERY BUCHER, PH. D.
Associate Professor of Chemistry

HENRY THATCHER FOWLER, PH. D.
Professor of Biblical Literature and History

LINDSAY TODD DAMON, A. B.
Associate Professor of Rhetoric

GEORGE WYLLYS BENEDICT, PH. D.
Assistant Professor of English

THOMAS CROSBY, JR., A. M.
Assistant Professor of English and Public Speaking

JOHANNES BENONI EDUARD JONAS, PH. D.
Assistant Professor of the Germanic Languages and Literatures

*On leave of absence during the academic year 1904-05.

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HENRY BARRETT HUNTINGTON, A. B.
Assistant Professor of English

ALBERT SWIFT MORSE, A. M.
Assistant Professor of the Romance Languages

JAMES FRANKLIN COLLINS, PH. B.
Instructor in Botany, and Curator of the Herbarium

CLARENCE ELNATHAN NORRIS, A. M.
Instructor in German

ALLAN HERBERT WILLETT, PH. D.
Instructor in Political Economy

GEORGE WARRINGTON LATHAM, A. B.
Instructor in English

EDGAR LEWIS ASHLEY, A. M.
Assistant in German

MARION LYDIA SHOREY, PH. B.
Instructor in Physiology and Household Economics

JESSIE RICHARDS ADAMS (Graduate of the Boston Normal School of Gymnastics.)
Instructor in Physical Culture

ELSIE MARION STRAFFIN, A. M.
Assistant in English

JEANNIE OLIVER ARNOLD, M. D.
Medical Examiner

STANDING COMMITTEES OF THE FACULTY

On Admission to the Freshman Class

Professors HARKNESS, DAVIS, WILSON, MANATT, JOHNSON, and DAMON, DEAN EMERY.

On the Curriculum:

Professors POLAND, DAVIS, GARDNER, LANGDON, BRONSON, EVERETT, ALLINSON, MEAD, and MACDONALD, Dean EMERY.

On Admission to Advanced Standing:

Professors DAVIS, BRONSON, MANNING, and SLOCUM, Dean EMERY.

On Courses for Special Students:

Professors MUNRO, JACOBS, BUCHER, and BENEDICT, Dean EMERY.

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STUDENTS

SENIORS—CLASS OF 1905

NAME	RESIDENCE	ROOM
Josephine Stedman Armstrong	*Worcester, Mass.*	66 Benefit St.
Mary Elizabeth Bannan	*Providence*	311 Prairie Ave.
Bernice Thornton Banning	*Providence*	63 Charles Field St.
Marion Hamilton Bonn	*Providence*	8 Spencer St.
Edith Anne Brown	*Taunton, Mass.*	66 Benefit St.
Isabel Marion Brownson	*Providence*	342 Plain St.
Bertha Augusta Buffinton	*Providence*	463 Broadway
Sarah Kempton Cady	*Providence*	382 Blackstone St.
Letitia Mabel Cahoon	*Providence*	92 Wesleyan Ave.
Frances Ross Cameron	*Providence*	489 Hope St.
Harriet Louise Campbell	*Centredale*	Centredale
Millie Dimond Church	*Bristol*	Bristol
Bertha Louise Clark	*Chester, Ct.*	184 Meeting St.
Clara Louise Cooke	*Providence*	134 Congdon St.
Eliza Jennetta Delaney	*Providence*	23 Pitman St.
Florence Ellsworth Doane	*Providence*	9 John St.
Olive Bowers Eddy	*Providence*	250 Lockwood St.
Mary Louise Gay	*Attleboro, Mass.*	Attleboro
Alida May Green	*Hornellsville, N. Y.*	85 Congdon St.
Marion Brooks Gould	*Providence*	45 Charles Field St.
Bessie Maura Henehan	*Seattle, Washington*	64 College St.
Louisa Roberts Holt	*Pawtucket*	11 Hayward St., Pawtucket
Roberta Alice Horton	*Pawtucket*	265 Prospect St., Pawtucket
Lulu Broadbent Joslin	*Attleboro, Mass.*	117 George St.
Harriet Gertrude Lane	*Providence*	26 Irving Ave.
Marie Louise Laviolette	*Woonsocket*	125 Governor St.
Bessie Madeleine Leahy	*Pawtucket*	50 Clay St., Pawtucket
Alice Josephine Macomber	*Attleboro*	Attleboro
Alice Howard Manchester	*Providence*	82 Olney St.
Susan Annie May	*Goulds*	32 Jenckes St.
Marion Midgley	*Providence*	177 Progress St.
Elizabeth Perry	*Apponaug*	184 Meeting St.
Jennie May Perry	*Pawtucket*	19 Kossuth St., Pawtucket
Ethel Tremaine Robinson	*Providence*	27 Beacon Ave.
Sarah Gridley Ross	*Cortland, N. Y.*	190 Meeting St.
Lulu Winifred Simpson	*Turtle Point, Pa.*	190 Meeting St.

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NAME	RESIDENCE	ROOM
Alice Whitall Traver	*Hartford, Ct.*	66 Benefit St.
Louise Whitcher	*Providence*	255 Potter Ave.
Cora Horton Whittaker	*Rehoboth, Mass.*	Rehoboth
Inez Kelley Whittemore	*Providence*	87 Willow St.

JUNIORS—CLASS OF 1906

NAME	RESIDENCE	ROOM
Bessie Lenore Adams	*River Point*	River Point
Helen Barrows Albro	*Newport*	125 Governor St.
Alice Appleton	*Providence*	209 Angell St.
Mabel Corinne Ashworth	*Auburn*	1350 Elmwood Ave.
Marion Chace Austin	*Niantic*	10 Hammond St.
Edith Agnes Barr	*Providence*	117 Howell St.
Stella Hathaway Baylies	*Fall River, Mass.*	34 Pratt St.
Henrietta Celia Brazeau	*Pawtucket*	310 West St., Pawtucket
Mary Agnes Doyle Brennan	*Providence*	81 Hope St.
Cora Severy Burrill	*Pawtuxet Neck*	Pawtuxet Neck
Elizabeth Clark Butterworth	*Fall River, Mass.*	34 Pratt St.
Edith Elizabeth Chaffee	*East Providence*	38 Russell Ave., East Providence
Winifred Florence Chase	*Fall River, Mass.*	34 Pratt St.
Alleyne Clark	*Castleton, Vt.*	66 Benefit St.
Annie Louise Cocks	*Kansas City, Mo.*	117 George St.
Hope Davis	*Providence*	64 Keene St.
Ursula Hope Devenish	*Providence*	10 Adelphi Ave.
Bessie Ballard Grammont	*Providence*	21 Arch St.
Linda Lawton Haight	*Warren*	Warren
Ida Frances Herrmann	*Bristol*	17 Constitution St., Bristol
Judith Barber Hopkins	*Putnam, Ct.*	66 Benefit St.
Mary LaDame	*North Adams, Mass.*	76 Benefit St.
Florence May Leighton	*Laconia, N. H.*	180 Hope St.
Annie Elizabeth McAlister	*Central Falls*	56 Rand St., Central Falls
Emma Elizabeth McKenna	*Providence*	57 Cypress St.
Edith Arline Nichols	*Providence*	37 Somerset St.
Ethelwyn Chaffee Phillips	*Providence*	345 Potter Ave.
Elva Elizabeth Phillips	*Worcester, Mass.*	16 Cooke St.
Bertha Elizabeth Piggott	*New Bedford, Mass.*	217 Washington St.
Grace Redford	*Pawtucket*	65 Clyde St., Pawtucket
Florence Carrie Reynolds	*Greenfield, N. H.*	32 Jenckes St.
Lillian Hope Robinson	*Pawtucket*	339 Broadway, Pawtucket
Laura Richards Sherman	*Providence*	62 Vernon St.
Grace Mabel Sherwood	*Providence*	324 Laurel Hill Ave.
Grace Susan Stevens	*Williamstown, Mass.*	54 Willow St.
Alice Sundberg	*Rumford*	89 Bishop Ave., Rumford
Ethel BrownThornton	*Providence*	164 Pond St.
Alice Carlotta Tillinghast	*Providence*	172 Prospect St.

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SOPHOMORES—CLASS OF 1907

NAME	RESIDENCE	ROOM
Mary Louise Adams	*Providence*	133 Mitchell St.
Leah Brown Allen	*Providence*	76 Pitman St.
Anne McCurdy Bass	*Willimantic Ct.*	66 Benefit St.
Lizzie Alma Blackburn	*Fairhaven, Mass.*	70 Washington St., Central Falls
Alice Marie Blessing	*Providence*	232 Pearl St.
Dorothea Brenton Burge	*Edgewood*	184 Albert Ave.
Mildred Allen Carnes	*Providence*	281 Williams St.
Martha Warren Case	*Providence*	53 Grove St.
Gertrude Mary Clark	*Providence*	43 East George St.
Marion Shirley Cole	*Bristol*	59 Keene St.
Blanche May Crapo	*Taunton, Mass.*	32 Vernon St.
Elizabeth Robinson Crapon	*Providence*	41 Charles Field St.
Nellie Veronica Donovan	*Pawtucket*	14 Sterry St., Pawtucket
Bessie Alice Gatie	*New Bedford, Mass.*	10 Linden St.
Ida Marion Grimshaw	*Fairhaven, Mass.*	9 Gerald St., Pawtucket
Bertha Ethel Hopkins	*North Scituate*	28 Bridgham St.
Harriet Lonvan Hoyle	*Providence*	108 Providence St.
Zerrie Fitz Randolph Huntsman	*Providence*	37 South Angell St.
Marguerite May Levere	*Bristol*	125 Governor St.
Rachel Gertrude McAuliffe	*Providence*	184 Elmgrove Ave.
Kathrine Marion MacKenzie	*Pawtucket*	36 Waldo St., Pawtucket
Grace Edith Mahy	*Providence*	40 Fourth St.
Alice Rhodes Martin	*Warren*	Warren
Bertha Corinne Mathieu	*Central Falls*	379 Broad St., Central Falls
Louise Baggott Morgan	*Providence*	184 Howell St.
Claribel Redford	*Pawtucket*	65 Clyde St., Pawtucket
Ethel Louise Robinson	*Providence*	17 Irving Ave.
Ethel Ida Rowand	*East Providence*	67 James St., E. Providence
Louise Amelia Schofield	*Providence*	40 Angell St.
Louise Schutz	*Providence*	638 Broad St.
Sarah Ida Shapiro	*Providence*	8 Jenckes St.
Blanche Luella Smith	*Providence*	42 Dexter St.
Eunice Clara Smith	*Pawtucket*	625 East Ave., Pawtucket
Marion Frances Smith	*Ashland, N. H.*	59 Keene St.
Ethel May Washburn	*Central Falls*	Central Falls
Mary Alice Whittlesey	*Rockville, Ct.*	1 Daniel St., Pawtucket
Lillian Arthur Winsor	*Providence*	132 Lowell Ave.

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FRESHMEN—CLASS OF 1908

NAME	RESIDENCE	ROOM
Harriet Louise Ash	*Providence*	70 Carrington Ave.
Helen Mellen Banning	*Walpole, N. H.*	66 Benefit St.
Agnes Marie Blaine	*Middleboro, Mass.*	66 Benefit St.
Louise Adams Bourne	*Providence*	100 Taber Ave.
Laura Cindarella Brant	*Nooseneck*	61 Wilson St.
Rose Ellen Brant	*Nooseneck*	61 Wilson St.
Florence Edith Browne	*Providence*	12 Arch St.
Gertrude Mace Childs	*Swampscott, Mass.*	66 Benefit St.
Bertha Guild Coffin	*Providence*	34 Pratt St.
Elizabeth Reynolds Cole	*Warren*	Warren
Gertrude March Ellis	*Fairhaven, Mass.*	66 Benefit St.
Lucy May Ellis	*Attleboro, Mass.*	7 Angell St., Attleboro
Nelly Mary Evans	*Port Chester, N. Y.*	66 Benefit St.
Katherine Eliza Everett	*Westerly*	119 E. Manning St.
Sadie Edna Fearney	*Providence*	370 Public St.
Ruth Leonard Foster	*Providence*	87 Williams St.
Lida Montfort Fowler	*Providence*	20 Bridgham St.
Lillie Etta Fraser	*Providence*	6 Hamlin St.
Helen Louise Gifford	*East Greenwich*	East Greenwich
Mary Amelia Gorman	*Providence*	16 Comstock Ave.
Mary Isabel Hall	*Providence*	31 Pocasset Ave.
Josephine Agnes Halliwell	*Providence*	63 Arnold St.
Frances Eldridge Hatch	*Providence*	44 Sycamore St.
Hattie Maria Holt	*Providence*	146 Sheldon St., Elmwood Station
Sarah Ann Ide	*East Providence*	401 Benefit St.
Madeline Katherine Johnson	*Providence*	217 Regent Ave.
Abbie Howard Keith	*Putnam, Ct.*	87 Benefit St.
Marjorie Kent	*Providence*	612 Public St.
Audrey Lydia Lake	*Fall River, Mass.*	66 Benefit St.
Grace Dixon Lawton	*Providence*	98 Peace St.
Gladys Russell Mallette	*Providence*	5 Villa Ave.
Cora Ella Medbury	*Providence*	219 Lowell Ave.
Caroline Battelle Phillips	*Providence*	345 Potter Ave.
Alice Manchester Potter	*Providence*	145 Chester Ave.
Alice Ethel Presbrey	*Providence*	51 Niagara St.
Elizabeth Schrempf	*Providence*	117 George St.
Mary Beulah Sheldon	*Providence*	842 Plainfield St.
Fannie Whittlesey Shore	*Pawtucket*	Daniel St.
Lydia Ann Slade	*Fall River, Mass.*	68 Jackson St.
Marjorie Whitney Stevens	*Providence*	101 Whitmarsh St.
Beatrice Anna Sturdy	*Providence*	49 Haskins St.

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NAME	RESIDENCE	ROOM
Mary Hodgson Warren	*Fall River, Mass.*	38 Jenckes St.
Laura Ellen Webster	*Providence*	54 Wesleyan Ave.
Hannah Grace Welsh	*Warren*	Warren
Mary Evelyn Whelan	*Fall River, Mass.*	74 Almy St., Fall River
Mary Harkness White	*Providence*	287 Highland Ave.
Emilie Marie Louise Wildprett	*Providence*	224 Point St.

SPECIAL STUDENTS

NAME	RESIDENCE	ROOM
Stella Celeste Allen	*Providence*	44 East Manning St.
Pearl Ruth Almy	*Brockwayville, Pa.,*	The Moses Brown School
Lida May Bassett	*Plymouth, Mass.*	66 Benefit St.
Signe Bjerkander	*Providence*	282 Point St.
Marion Vaughn Bowen	*Warren*	Warren
Gertrude Marion Brown	*Providence*	101 Wesleyan Ave.
Agnes Byström	*Providence*	309 Vermont Ave.
Edith Abigail Cate	*Providence*	158 Elmwood Ave.
Lillian Ethel Cloutier	*Providence*	20 Powhatan St.
Ethel Congdon Colley	*Providence*	312 California Ave.
Dorothea Esther Cotton	*Providence*	16 Humboldt Ave.
Gertrude Congdon Davis	*Providence*	81 Lloyd Ave.
Bertha Mabel Dean	*Providence*	31 Daboll St.
Eva Jordan Field	*Providence*	355 Friendship St.
Eva Belle Fletcher	*Providence*	1420 Westminster St.
Mabel Anstice Gannett	*Providence*	43 Chapin Ave.
Jessy Benedict Gessner	*Providence*	86 Aborn St.
Elizabeth Gleason	*Providence*	58 Olive St.
Katherine Corinne Goldonofsky	*Woonsocket*	289 Bernon St., Woonsocket
Helen Louise Humphrey	*Towanda, Pa.*	180 Doyle Ave.
Edith Lawrence King	*Chelsea, Mass.*	66 Benefit St.
Marion Elizabeth King	*Chelsea, Mass.*	66 Benefit St.
Mabel Mumford Lincoln	*Providence*	39 Francis St.
Mary Helena McArdle	*Attleboro, Mass.*	Attleboro
Ida Anna Morgan	*Providence*	2270 Pawtucket Ave.
Maude Bixby Nichols	*Providence*	29 Portland St.
Lillian May Osler	*Providence*	241 Rhodes St.
Rieta Palmer	*Stonington, Ct.*	Stonington
Georgie Smith Peck	*Providence*	48 Princeton Ave.
Enid Pierce	*Providence*	68 Olney St.
Nina Hovlitzell Ravenscroft	*Ridgway, Pa.*	The Moses Brown School
Emily Rogers	*Providence*	264 Bowen St.

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NAME	RESIDENCE	ROOM
Ida Lawrence Rollins	*Provideence*	191 Bridgham St.
Isabel Douglas Scott	*Providence*	435 Angell St.
Caroline Abigail Sherman	*Providence*	272 Benefit St.
Georgianna Smith	*Providence*	109 Massachusetts Ave.
Marjorie Snell	*Providence*	1045 Elmwood Ave.
May Amelia Taylor	*Providence*	1236 Wesminster St.
Alice Lonez Wallace	*Providence*	475 Public St.
Clara Mabel Wheeler	*Providence*	26 Cabot St.
Alene Williams	*Providence*	175 Lloyd Ave.

SUMMARY OF THE WOMEN'S COLLEGE

Seniors	40
Juniors	38
Sophomores	37
Freshmen	47
Special Students	41
Total	203

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Appendix

THE RHODE ISLAND ALPHA OF THE PHI BETA KAPPA SOCIETY

OFFICERS AND COMMITTEES 1904-05

President

Professor WILLIAM WHITMAN BAILEY, LL. D.

Vice-President

WILLIAM THANE PECK, Sc. D.

Corresponding Secretary

Professor WALTER COCHRANE BRONSON, Litt. D.

Treasurer

ROBERT PERKINS BROWN, A. M.

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Auditing Committee

WILLARD BROOKS TANNER, A. M., WALTER JAMES TOWNE, A. M.

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MEMBERS ELECTED IN 1904

Seniors

Irving Judson Beckwith
Louis Edward Feingold
Herbert Augustine Freeman
William George Hoffman, Jr.
George Sanford Holmes
Harold Vincent Joslin
Noble Brandon Judah, Jr.
Herbert Alden Kenyon
Ralph Arthur Lane
Jacob Alexander Mattuck
Frederick William O'Connell
Herbert Lee Sackett
Elmer Tompkins Stevens

Flora Melville Cotton
Mary Ellen Oslin
Eleanor Stark
Mae Stenhouse

Juniors

Raymond Davis Cady
Martin Stuart Hall
Frederick Eugene Hawkins
Robert Irving Jamieson
Irving Lanouette Price
William Alfred Read
William Arnold Spicer, Jr.
Harvey Julian Swann

Josephine Stedman Armstrong
Alice Howard Manchester
Alice Whitall Traver
Cora Horton Whittaker

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THE BROWN CHAPTER OF THE SOCIETY OF THE SIGMA XI

Students who have taken at least seventy-eight term hours in pure or applied science are, in their Senior year, eligible to membership in the honorary scientific society, Sigma Xi, provided that they have "given promise of marked ability in those lines of work which it is the object of the Society to promote."

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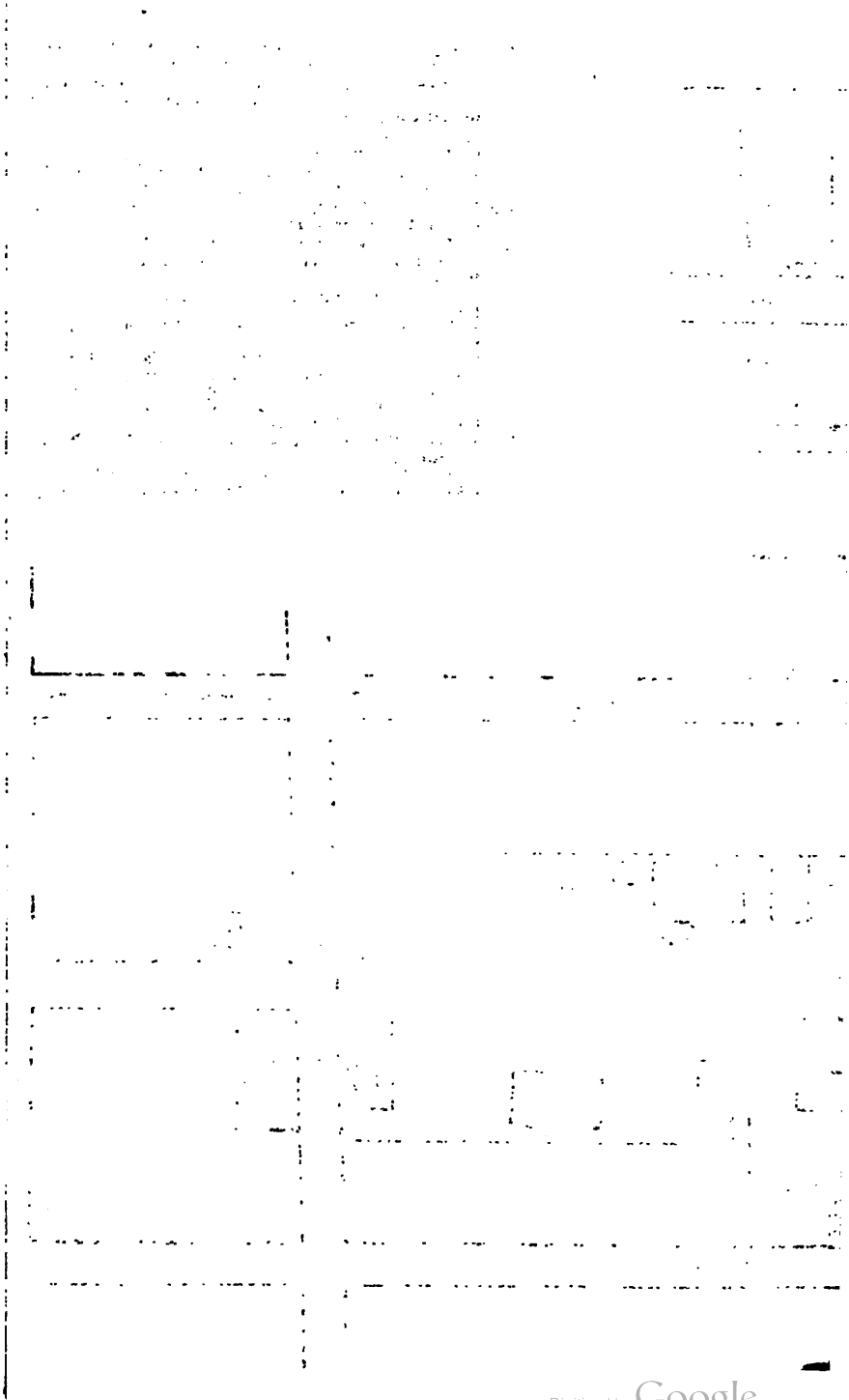

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